

**FINAL
NAVAL STATION TREASURE ISLAND
REMEDIAL PROJECT MANAGERS AND
BASE REALIGNMENT AND CLOSURE CLEANUP TEAM
MEETING MINUTES
FEBRUARY 6, 2013**

These minutes summarize discussions with the Department of the Navy remedial project managers (RPM) and the Base Realignment and Closure (BRAC) Cleanup Team (BCT) for the former Naval Station Treasure Island (NAVSTA TI). The meeting began at 10:00 a.m. on February 6, 2013, at the office of Navy BRAC in San Diego, California.

The following participants attended the meeting:

Izzat Amadea, Navy Resident Officer in Charge of Construction (ROICC), by telephone

Lora Battaglia, Navy

John Baur, Innovative Technical Solutions, Inc. (ITSI) Gilbane

George Bibbins, San Francisco Public Utilities Commission (SF PUC), by telephone

Bill Carson, Terraphase Engineering (consultant to Treasure Island Community Developers [TICD]), by telephone

Dave Clark, Navy

Jerry Cooper, ITSI Gilbane, via telephone

Jennifer Duffield, AMEC (Consultant to Treasure Island Development Authority [TIDA]), via telephone

Zachary Edwards, Navy Radiological Affairs Support Office (RASO), by telephone

Franklin Fernandez, ROICC, by telephone

Keith Forman, Navy

Danielle Janda, Navy

Quinn Johnson, Tetra Tech

Carolyn Jones, SF PUC, via telephone

Tracy Jue, California Department of Public Health (CDPH) Environmental Management Branch (EMB), by telephone

Anthony Konzen, Navy, by telephone

Radhika Majhail, California Department of Toxic Substances Control (DTSC), by telephone

Larry Morgan, CDPH EMB

Gary Munekawa, Navy ROICC, via telephone

Jessica O'Sullivan, Tetra Tech

Marcie Rash, Tetra Tech, by telephone

Phil Skorge, ERRG

David Stensby, U.S. Environmental Protection Agency (EPA), by telephone

Remedios (Medi) Sunga, DTSC

Debra Theroux, Navy

Denise Tsuji, DTSC, via telephone

Michael Tymoff, TIDA, by telephone

Tommie Jean Valmassy, Tetra Tech

Scott Warner, AMEC (consultant to TIDA), via telephone

Matt Wright, CDPH EMB, by telephone

Chris Yantos, Navy

Myriam Zech, Regional Water Quality Control Board (Water Board), by telephone

I. Introductions, Meeting Guidelines, and Agenda Review

Jessica O'Sullivan (Tetra Tech) began the meeting with introductions. Keith Forman (Navy) discussed new meeting guidelines and changes for the upcoming BCT meetings:

- In-person attendance by the Navy at BCT meetings will be limited by travel budget cuts. As a result, the BCT meetings will be held the third Wednesday of every month, which is immediately after the RAB meetings that are held on the third Tuesday every other month. Mr. Forman reviewed the new BCT schedule. He asked the BCT to contact him with any concerns.
- The BCT meetings will be changed to webinar format and will be more interactive and increase the value of the discussions. Meeting minutes will be more bullet points to identify key points and discussions.
- There will be integration of the Navy project teams between Treasure Island and Hunters Point Shipyard and will have more of a team focus rather than a base focus regarding experience and interaction. For example, Chris Yantos (Navy) will be soon working on NAVSTA TI and has experience in radiological projects.
- Scott Warner (AMEC) noted he will be leaving AMEC, and Jennifer Duffield (AMEC) will be taking his place.

II. BCT Meeting Minutes

Ms. O'Sullivan said in an effort to streamline the minutes and review process, all outstanding draft minutes from 2010 through 2012 will be distributed to the BCT on a single compact disc. All draft minutes will be considered final unless the BCT provides comments, which will be incorporated. Thus, the path forward will be that draft minutes will be distributed electronically via e-mail every month and will be considered final pending any comments. Mr. Forman noted the minutes will not be part of the administrative record.

III. Sites 6, 12, and Building 233 Update

Site 6

Anthony Konzen (Navy) provided the aboveground storage tank/underground storage tank (AST/UST) 240 corrective action plan (CAP) update. Carolyn Jones (SF PUC) asked to confirm there were no radiological detections within the 8-foot excavation. Mr. Konzen replied affirmatively. Larry Morgan (CDPH EMB) asked if the survey and sampling followed the multi-agency radiation survey and site investigation manual (MARSSIM) procedures. Mr. Konzen again replied affirmatively. Biased and systematic samples were collected as required and sent to the Hunters Point laboratory. Mr. Forman inquired about the lead agency (Water Board) involved in reviewing the corrective action report. Mr. Konzen said the Water Board will be reviewing the CAP, but will defer comments regarding radiological data to DTSC. However, the radiological data will be only summarized in the AST/UST 240 closure completion report and will be used to support development of the Site 6 final status survey (FSS) report.

Site 12

Mr. Konzen reviewed the handout for Site 12. Mr. Morgan asked if there were any radiological detections inside Building 1321. Mr. Konzen explained that as a result of the poor building conditions and the volume of porous material, it was most cost efficient to dispose of all the material from inside the building as low-level radiological waste (LLRW). The radiological survey was conducted as a pre-characterization survey under a CDPH Radiologic Health Branch license. Mr. Morgan asked if Building 1321 will be demolished down to the slab or if the slab will be removed. Mr. Konzen said the demolition will occur in phases, with the first phase entailing demolishing the building down to the slab. Then, in a later phase, the slab will be surveyed and removed.

Medi Sunga (DTSC) asked to clarify the scope of the phases for Solid Waste Disposal Areas (SWDA) A&B. Dave Clark (Navy) responded that Tetra Tech EC, Inc., will conduct the Phase II work at Westside Drive (SWDA A&B), which will incorporate the remaining radiological surveys and building demolition that were not completed under Phase I. The Phase III work will cover the radiological surveys for additional building demolition as necessary (slab and sub-slab). Areas identified as potentially impacted in the Historical Radiological Assessment Supplemental Technical Memorandum (HRASTM) will also be addressed in Phase III.

Building 233

Mr. Konzen reviewed the handout for Building 233. Eighty to 90 percent of the work is complete. The focus of the remaining field work at Building 233 will be to investigate and remediate the remaining 60 to 110 feet of drain lines in the Building 233 project footprint (indicated by the Class I boundary on the figure). Any drains associated with Building 233 but outside the project footprint will be addressed under a separate contract. Mr. Carson asked to clarify which utilities outside the Class I boundary have been contracted for survey and removal. Mr. Clark responded the sanitary lines are contracted under the scoping survey contract at various sites (Building 3 and Sites 12, 32) and includes a specified linear footage of sanitary sewer line from Building 233 to pump station 9, and from Building 3 to pump station 6, as well as catch basin 544. The storm lines are not currently part of an immediate project. Mr. Warner asked if there is update to the radiological project scope and schedule that was provided in December 2012. Mr. Clark said there had been no updates to the schedule, but he will provide updates to the BCT if a change occurs.

Matt Wright (CDPH) stated his concern regarding the field variance that changed the soil survey procedure from a MARSSIM standard to an EPA standard. Zach Edwards (Navy) acknowledged the field variance and said the Navy is working to address how the data will be incorporated. Debra Theroux (Navy) reiterated the change in standards occurred only for the single soil dataset and is not a basewide change. Mr. Forman said a meeting with him, Mr. Clark, Mr. Konzen, and Mr. Edwards will be organized this week to discuss an appropriate path forward for the data and will contact CDPH to discuss its concerns.

IV. Sites 27, 31, and 33 Update

Site 27

Lora Battaglia (Navy) reviewed the handout for Site 27. She said Navy will maintain the original remedy presented in the 30 percent remedial design (RD). The dredged material will be reused as a sub-grade to the landfill at Alameda Point. Tracy Jue (CDPH EMB) asked if both DTSC and CDPH will need to review the Site 27 RD. Ms. Battaglia said only DTSC will review the RD since there is no radiological component.

Mr. Forman noted the Navy met with Brenda Goeden, San Francisco Bay Conservation and Development Commission (BCDC), and her attorney to discuss the 30 percent RD. The Navy and BCDC have different positions, but the Navy has the strong position that the applicable or relevant and appropriate requirements (ARARS) will be met. He said the selected remedy is conservative and is able to provide long-term effectiveness and permanence. Because of the difference in positions, BCDC will be distributing a letter of opposition.

Sites 31 and 33

Ms. Battaglia reviewed the handout for Sites 31 and 33. Mr. Morgan asked to identify the interim contractor for radiological controls and site maintenance at Site 31. Ms. Battaglia said Tetra Tech EC is the interim contractor. Ms. Battaglia said the Site 33 controls will be downposted. She noted the radiological analysis will be provided in Appendix N of the draft Remedial Action Completion Report (RACR). Mr. Carson asked if a letter of concurrence is required from CDPH if free-release is requested in the Site 33 RACR. Mr. Forman replied that if the site is not radiologically impacted, then no FSS and letter of free release will be required.

V. Upcoming Documents and Field Activities

Upcoming Documents

Mr. Clark reviewed the Document Tracking Sheet (DTS) and highlighted the upcoming documents anticipated for draft or final delivery and agency reviews due within the next 30 days. Mr. Carson asked when the Finding of Suitability to Transfer (FOST) 4 scope and schedule will be available. Ms. Theroux said the scope and schedule are pending finalization of the HRASTM, which will identify potentially impacted areas. Mr. Carson requested a meeting to discuss the FOST 4 scope and schedule after the HRASTM is finalized.

Field Schedule

Mr. Clark reviewed the field activities scheduled to begin within the next 30 days. Ms. Battaglia made a correction and said the Sites 31/33 remedial action work is expected to finish around August 31, 2013.

VI. Sites 21, 24, 30, YF3, Basewide Groundwater Monitoring and Radiological Scoping Surveys Update

Site 21

Danielle Janda (Navy) reviewed the Site 21 update. She said the Navy provided the Site 21 Record of Decision/Remedial Action Plan (ROD/RAP) signature page to DTSC earlier than planned, on February 6. Ms. Sunga asked about the basis for the start date of the 5-year review.

Ms. Janda said per Navy policy, the start date is based on when the first ROD/RAP was signed, which was the Site 30 ROD. The other sites covered under the 5-year review will be Sites 21 and 27. She explained there is one 5-year review cycle for all ROD/RAP sites where remedial action was required. Ms. Sunga asked whether a single covenant to restrict use of property (CRUP) or multiple CRUPs will be prepared. Ms. Theroux said this issue is still to be determined.

Site 24

Ms. Janda reviewed the Site 24 update. Mr. Forman asked if there was a clear remedial alternative for the remedy. Ms. Janda explained there are multiple factors that pose a challenge in selecting a solution, such as vinyl chloride that is in groundwater but not in soil gas. A revised cost analysis will need to be prepared because the original estimates were calculated in 2009, before remediation. Mr. Carson noted the weight-of-evidence approach should be used. Mr. Forman said a storyboard meeting should be held to discuss and determine a remedy.

Site 30

Ms. Janda reviewed the Site 30 update. The currently remedy is to maintain the engineering controls (EC). She also noted Site 30 is identified as radiologically impacted in the HRASTM.

YF3

Ms. Janda reviewed the YF3 update. She said the data collected from the soil sampling will be used in an upcoming screening-level ecological risk assessment. Mr. Forman asked who the lead agency will be for the review of YF3. Ms. Janda said the Water Board was the lead agency.

Basewide Groundwater Monitoring

Ms. Janda reviewed the groundwater monitoring update. She noted radium-226 was not detected above background. There was an unexpected increase of vinyl chloride and 1,2-dichloroethene at well 21-IP07 at Site 21, but no other wells show an increasing trend like well 21-IP07. One hypothesis regarding the increase is because of the heterogeneous geology at the site and across Treasure Island.

Radiological Scoping Survey

Ms. Janda reviewed the radiological scoping survey handout. She noted the roadways between Site 6 and 12 were added to the scoping survey plan because of potential contamination from transporting soil between the two sites during remediation activities. There is a potential radium-226 (Class III) concern for the entire Building 3 and for thorium-232 (Class I/II) on the roof of Building 3 where the optical shop was located. The entrances and exits of Building 3 will also be surveyed.

Ms. Janda noted the back yards within Site 12 may be added to the scope. Myriam Zech (Water Board) asked for the technical basis for including the back yards. Mr. Forman said the Navy intends to collect and analyze the results from the common areas and then will determine if it is necessary to include the back yards.

Mr. Wright asked if the task-specific plans will be reviewed. Mr. Forman said typically they are not reviewed. He explained Navy RASO works closely with the CDPH RHB in preparing the plans. The Navy will determine the necessity for CDPH EMB review based on the receipt of the

first task-specific plan by the BCT. Field mobilization is expected to occur in April 2013 instead of May.

VII. RAB Meeting Agenda / Community Relations Update

Mr. Forman said the next RAB meeting will be held on February 19, 2013. The main agenda item will be the 2013 look ahead presentation. Tommie Jean Valmassy (Tetra Tech) reviewed the community relations activities and items handout. Mr. Forman asked Radhika Majhail (DSTC) for any suggestion on the format of the radiological update fact sheet. Ms. Majhail recommended a simple format that outlines what, where, and how, and identifies the steps and path forward to achieve a resolution. Mr. Clark suggested linking the fact sheet with the final HRASTM. Mr. Forman noted the HRASTM only identifies potentially impacted areas that will be further investigated but does not present recommendation or remedies. Ms. Majhail said the DTSC Treasure Island hotline received one message from a former resident who used the day care center, but she has been unsuccessful in reaching the caller.

VIII. Action Item Review / Other Meetings

Ms. O'Sullivan reviewed the action items list and discussed the outstanding items that are now complete and noted the new action items from the meeting today.

New Action Items:

- The Navy is to organize a meeting with CDPH to discuss an appropriate path forward for the Building 233 data and discuss any remaining concerns.
- The Navy is to organize a meeting with the BCT to discuss the FOST 4 scope and schedule after the HRASTM is finalized.
- The Navy will discuss the level of review needed for task-specific plans and then will discuss the path forward with CDPH EMB.

Future Agenda Items:

Ms. O'Sullivan asked for any additional agenda items to be included for the next BCT meeting, scheduled for March 20, 2013; none were requested.

- March 20, 2013, Tetra Tech, Oakland, California
- April 17, 2013, Tetra Tech, Oakland, California
- May 15, 2013, Tetra Tech, Oakland, California

The meeting adjourned at 3:30 p.m.

FEBRUARY 2013

HANDOUTS

(74 Pages)

**AGENDA
NAVAL STATION TREASURE ISLAND
BRAC CLEANUP TEAM MEETING**

Date: Wednesday, February 6, 2013

Time: 10:00 a.m. to 2:30 p.m.

Place: Navy BRAC Office, 1455 Frazee Road, Suite 900, San Diego, CA

Dial In: [REDACTED]

Meeting ID#: [REDACTED]

- | | |
|---------------|--|
| 10:00 – 10:20 | Introductions, Meeting Guidelines, Agenda Review (Keith Forman) |
| 10:20 – 10:30 | BCT Meeting Minutes (Keith Forman / Jessica O’Sullivan) |
| 10:30 – 11:00 | Sites 6, 12, Building 233 Update (Tony Konzen) |
| 11:00 – 11:30 | Sites 27, 31, and 33 Update (Lora Battaglia) |
| 11:30 – 12:00 | Upcoming Documents and Field Activities (Dave Clark) |
| 12:00 – 1:00 | Lunch Break |
| 1:00 – 1:45 | Sites 21, 24, 30, YF3, Basewide Groundwater Monitoring and Radiological Scoping Surveys Update (Danielle Janda) |
| 1:45 – 2:00 | RAB Meeting Agenda / Community Relations Update (Keith Forman / Tommie Jean Valmassy) |
| 2:00 – 2:15 | Open Forum for City / Developer / BCT |
| 2:15 – 2:30 | Action Item Review / Other Meetings (Keith Forman) |

Future BCT Meetings:

March 20, 2013, Tetra Tech Inc., Oakland, California

April 17, 2013, Tetra Tech Inc., Oakland, California

May 15, 2013, Tetra Tech Inc., Oakland, California

Treasure Island RPM / BCT Meeting

Sign-in Sheet

Date:
February 6, 2013

Time:
10:00 AM – 4:00 PM

Location:
Navy BRAC Office, 1455 Frazee Rd, Suite 900, San Diego

Sign In	Name	Organization	Phone	Email
LB	Lora Battaglia	Navy	(619) 532-0968	lora.battaglia.ctr@navy.mil
on phone	Bill Carson	Terraphase	(510) 388-8745	william.carson@terrphase.com
	David Clark	Navy	(619) 532-0973	david.j.clark2@navy.mil
	Pete Coutts	Shaw	(303) 513-7471	pete.coutts@shawgrp.com
	Christine Donahue	Shaw	(530) 305-2457	christine.donahue@shawgrp.com
on phone	Zach Edwards	Navy RASO	(757) 887-7762	zachary.edwards@navy.mil
	Keith Forman	Navy	(619) 532-0913	keith.s.forman@navy.mil
	John Hill	Navy	(619) 532-0985	john.m.hill@navy.mil
	Danielle Janda	Navy	(619) 532-0796	danielle.janda@navy.mil
	Quinn Johnson	Tetra Tech	(510) 302-6247	quinn.johnson@tetrattech.com
Phone	Carolyn Jones	SF PUC	(415) 550-3577	cjones@swater.org
Phone	Tracy Jue	CDPH	(916) 324-4804	tracy.jue@cdph.ca.gov
	Tony Konzen	Navy	(619) 532-0924	anthony.konzen.ctr@navy.mil
	Larry Morgan	CDPH	(916) 319-9651	larry.morgan@cdph.ca.gov
	Jessica O'Sullivan	Tetra Tech	(510) 302-6235	jessica.osullivan@tetrattech.com
	Marcie Rash	Tetra Tech	(510) 302-6324	marcie.rash@tetrattech.com
	Charles Smith	Caltrans	(510) 286-5635	charles_smith@dot.ca.gov
Phone	David Stensby	EPA	(415) 972-3246	stensby.david@epa.gov
POS	Medi Sunga	DTSC	(510) 540-3840	remedios.sunga@dtsc.ca.gov

Treasure Island RPM / BCT Meeting

Sign-in Sheet

Date:
February 6, 2013

Time:
10:00 AM – 4:00 PM

Location:
Navy BRAC Office, 1455 Frazee Rd, Suite 900, San Diego

Sign In	Name	Organization	Phone	Email
<i>D. Th</i>	Debra Theroux	Navy ✓	(619) 532-0919	debra.theroux@navy.mil
<i>phone</i>	Denise Tsuji	DTSC ★	(510) 540-3824	denise.tsuji@dtsc.ca.gov
	Michael Tymoff	TIDA	(415) 554-7038	michael.tymoff@sfgov.org
<i>J. Valmassy</i>	Tommie Jean Valmassy	Tetra Tech ✓	(510) 302-6232	tommiejean.valmassy@tetrattech.com
<i>phone</i>	Scott Warner	AMEC ★	(510) 663-4269	scott.warner@amec.com
<i>phone</i>	Matthew Wright	CDPH ★	(916) 449-5687	matthew.wright@cdph.ca.gov
<i>on phone</i>	Myriam Zech	Water Board ★	(510) 622-5684	myriam.zech@waterboards.ca.gov
	Izzat Amadea	Navy ROICC ★		
	Franklin Fernandez	Navy ROICC		
	Radhika Majhail	PTSC ★		
	Jennifer Duffield	AMEC/TIDA		
	Phil Skorge	ERRG		
	Gary Minakawa	Navy ROICC ★		
	George Bibbins	SFPUC ✓		
	Jerry Cooper	ITSI ✓		
	John Baur	ITSI ✓		



AST/UST 240 CAP Update

**Naval Station Treasure Island
BRAC Cleanup Team Meeting
06 February 2013**

Anthony Konzen, P.G., Project Manager
Contracted Support for Navy BRAC

1



Presentation Overview

- **CAP Overview**
- **CAP Implementation Update**
 - CAP Activities Completed to Date
 - Upcoming CAP Activities
- **CAP Photos**

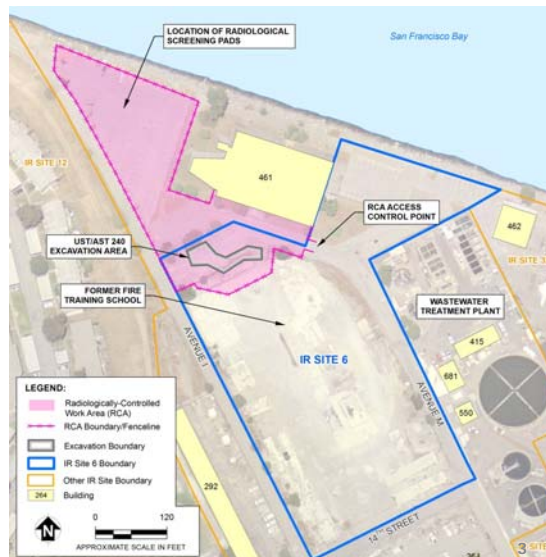
2



CAP Overview



- Goal is to remove petroleum-impacted soil and residual free product to the extent practical, in accordance with Water Board guidance
- Radiological controls required to support the petroleum removal action



CAP Implementation Update



CAP Activities Completed to Date

- Mobilization and site preparation began in mid-November 2012
- RASO concurrence on Rad Work Plan and MOUs in November 2012
- Performed background radiological survey
- Set up TtEC's RCA boundary and constructed radiological screening pads
- Performed incoming/outgoing rad surveys of equipment and personnel
- Decommissioned well 06-MW01 and removed asphalt pavement
- Excavated petroleum-impacted soil to 8 feet bgs and collected confirmation samples for petroleum analyses (completed Feb 1)



CAP Implementation Update



CAP Activities Completed to Date (Con't)

- Placed excavated soil on 5 individual radiological screening pads
- TtEC performed radiological scanning/sampling from excavations and screening pads.
- RASO reviewed and approved radiological scanning and sampling data packages for soil placed on lay down pads
- Approximately 800 cubic yards of soil has been excavated
- To date, no radiological impacts have been identified
- Excavations have been backfilled and compacted to the near-surface (completed Feb 4)
- Applied oxygen-releasing material (ORC-A™) to excavation as part of backfilling process

5



CAP Implementation Update



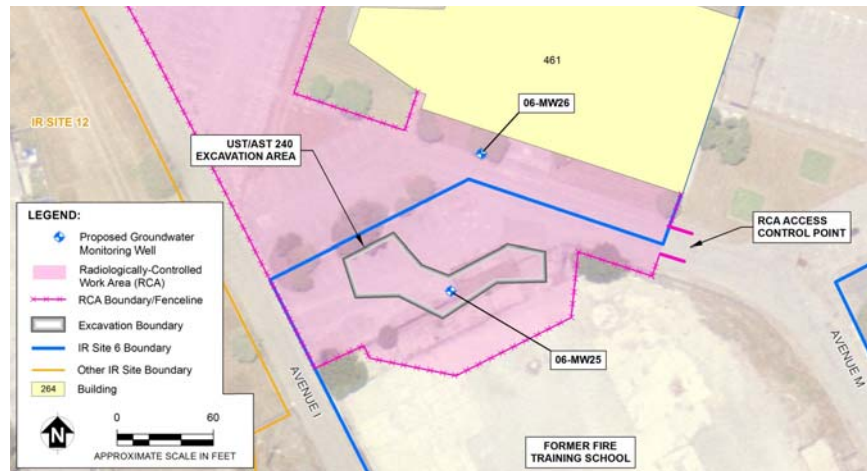
Upcoming CAP Activities

- Obtain radiological clearance of remaining two pads of excavated soil
- Install two monitoring wells (Scheduled for Feb 15)
- De-post TtEC's RCA boundary
- Re-surface parking lot area with asphalt
- Off-load petroleum-impacted soil to disposal facility
- Restore fencing and demobilize equipment
- Estimated fieldwork completion date is late February/early March 2013
(*Note: Fieldwork activities are dependent on weather conditions*)

6



New Well Locations



7



CAP Photos Excavation of Petroleum-Impacted Soil



8



CAP Photos Spreading Soil on Radiological Screening Pad



9



CAP Photos Backfilling and Compaction of Excavation



10



CAP Photos Compaction Testing





Naval Station Treasure Island



Site 12

BRAC Cleanup Team (BCT) Meeting
February 6, 2013

Anthony Konzen, P.G., Project Manager
Contracted Support for Navy BRAC

1



SWDA A&B Building Demolition



- Building 1321 radiological survey data was completed and uploaded to the Shaw Portal. Shaw has indicated that none of the surveys showed radioactivity levels above background.
- Radiological surveys for Buildings 1123 and 1319 were not completed. These surveys and demolition of Buildings 1321, 1319, and 1123 will be completed in 2013 as Phase III work under a new contract expected to be awarded over the next 60-days.

2



SWDA A&B Going Forward



- Radiological Characterization and remediation will be finished as Phase III work under a new contract expected to be awarded within the next 60 days.
- Phase III work will include :
 - Preparation of an NTCRA and other planning documents for BCT review
 - Demolishing up to five (5) buildings in the SWDA A& vicinity with debris beneath the foundations.
 - Performing MARSSIM characterization and remediation surveys in the Westside Drive area while removing debris and contaminated soil as part of the NTCRA.
 - Performing a Final Status Survey (FSS) and issuing a FSS report.

3



SWDA A&B Going Forward (Con't)



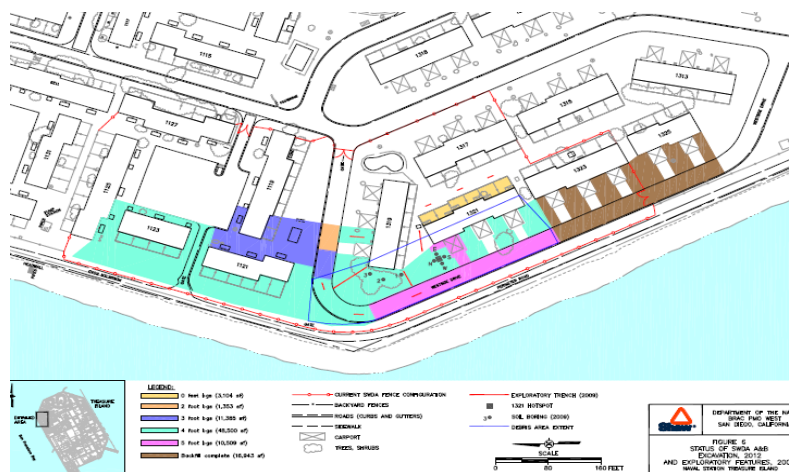
- Project Goals:
 - Request and obtain radiological unrestricted release from CDPH
 - Carry out property transfer to the City per the Site Management Plan schedule

4



Work Performed in June 2011 to Remove Hot Spot Near Building 1321

5

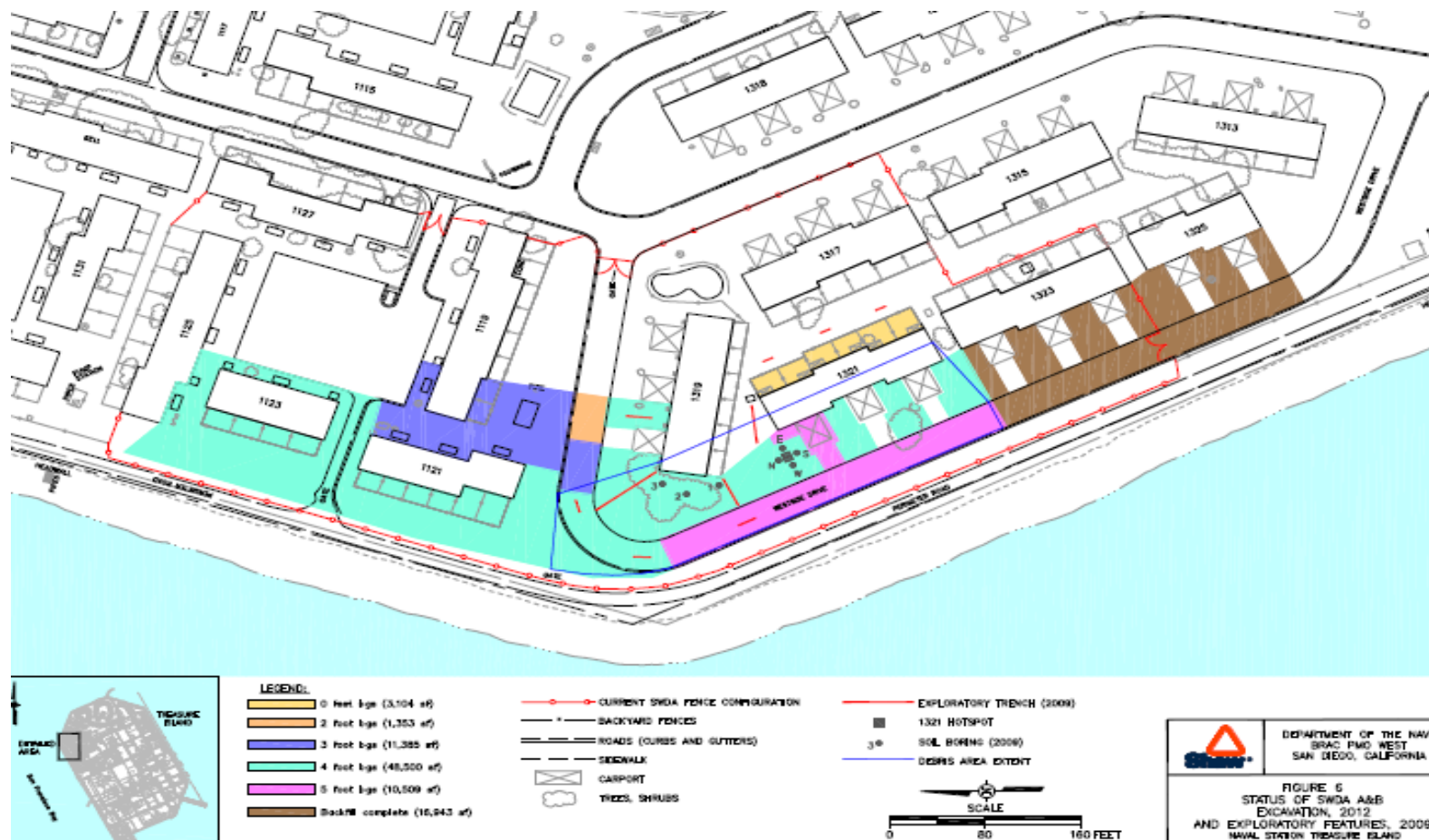


Map of SWDA A&B Westside Drive

6



SWDA A&B



Map of SWDA A&B Westside Drive



Site 12 Documents



- Bayside (SWDA 1207/1209) and North Point (SWDA 1231/1233) Removal Action Post-Construction Summary Report
 - The Navy will be providing responses to comments from the BCT and moving forward with Finalizing the PCSR.
- SWDA A&B Draft Post-Construction Summary Report
 - The document was issued to the BCT on January 29.



Naval Station Treasure Island



Building 233

BRAC Cleanup Team (BCT) Meeting
February 6, 2013

Anthony Konzen, P.G., Project Manager
Contracted Support for Navy BRAC

1



Building 233



- Future activities will include:
 - Removing the remaining E-W trending drain line and the southern end of the site and removing the three (3) drainage basins associated with the line.
 - Completing the Final Status Survey (FSS) Work Plan which will include characterization data collected during excavation of the building foot print and removal of the drain line.
 - Performing FSS sampling in accordance with the FSS work Plan
 - Preparing an FSS report requesting radiological unrestricted release of the Site from CDPH.
 - With agency concurrence, backfill the excavation areas to post building demolition surface grade.

2



Building 233



- Timeframe for project completion:

- Resumption of field work: March 2013
- Draft FSS Work Plan: May 2013
- Final FSS Work Plan: August 2013

3



Building 233

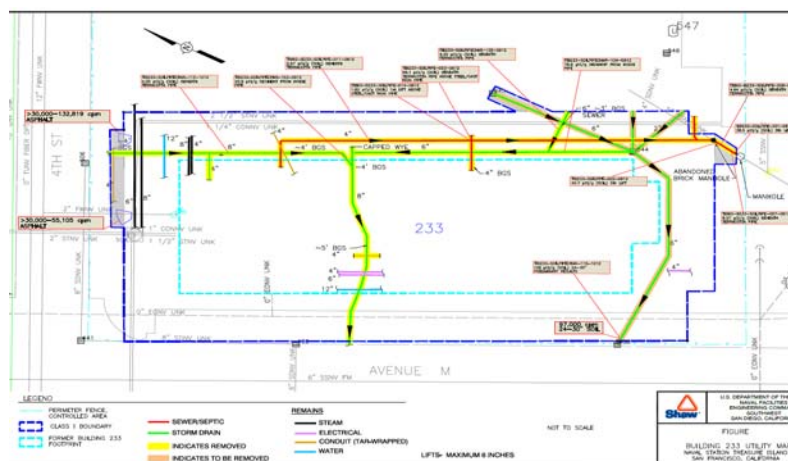


Figure Showing Drain Lines Removed and Line Remaining

4



Building 233

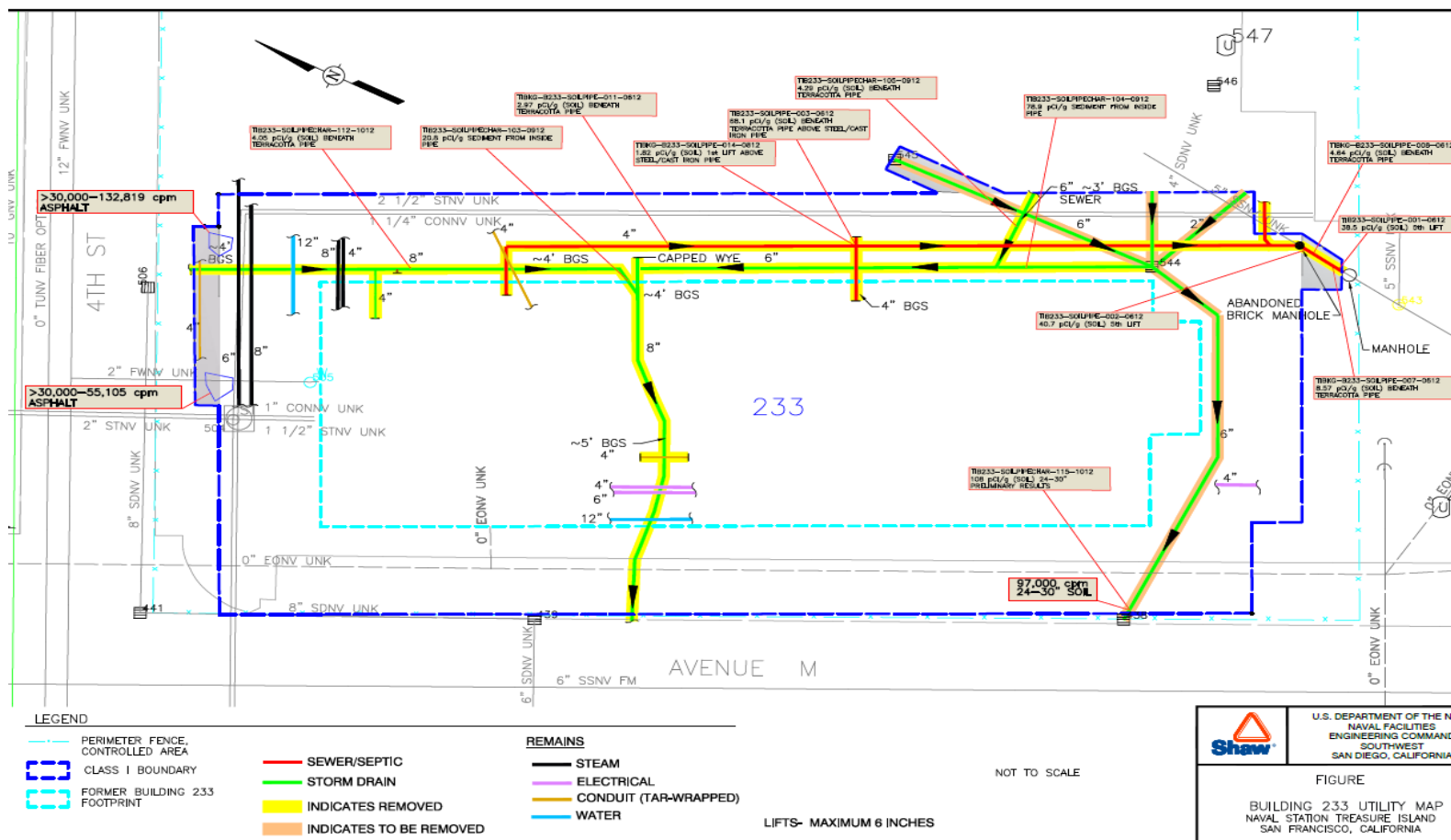


Figure Showing Drain Lines Removed and Line Remaining



Naval Station Treasure Island



PROJECT UPDATE

Site 27 Clipper Cove
Site 31 Former South Storage Yard
Site 33 Former Water Line Replacement

Lora Battaglia
Project Manager
Support Contractor to NAVFAC BRAC PMO
BRAC Program Management Office West

BCT Meeting, February 6, 2013



Agenda



- Site 27 Remedial Design and Work Plan
- Site 31 Draft RACR and Final Status Survey
- Site 33 Final RACR and Site Restoration





Agenda



- Site 27 Remedial Design and Work Plan
- Site 31 Draft RACR and Final Status Survey
- Site 33 Final RACR and Site Restoration



3



Agenda



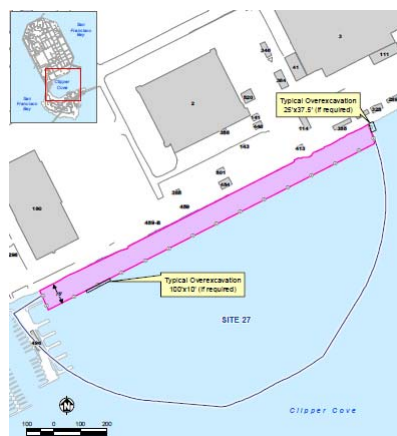
- Site 27 Remedial Design and Work Plan
- Site 31 Draft RACR and Final Status Survey
- Site 33 Final RACR and Site Restoration



4



Site 27 Update



- RTCs on 30% RD Resolved
- Draft Final 90% RD issued February 5
- Comments due March 4
- Internal Draft Work Plan to Navy February 15
- Draft Work Plan to BCT March 30
- Field work to begin July 2
- Field work complete October 19

5



Site 31 Update



- Project temporarily on hold
- Interim contractor for rad controls and site maintenance
- Draft RACR submitted to Navy January 30
- Upon issuance of new contract:
 - Draft RACR to BCT
 - FSS to begin
 - Site restoration
 - T&D of stockpiled soils

6



Site 31 FSS Update



- All radiologically contaminated areas identified and removed during characterization and remediation process
- Excavation floor (6 feet below ground surface (bgs)) is currently under approximately 3 feet of tidal water
- Field Work Variance issued to remove requirement for additional sampling



- The FSS Report will be written predicated on the statistical analysis of existing data (similar to Site 33)
- Final GWS to be conducted after site restoration

7



Site 33 Update



- Project temporarily on hold
- Interim contractor for rad controls and site maintenance
- RTCs on Draft RACR submitted to BCT February 6
- Upon issuance of new contract:
 - Final RACR to BCT
 - Site restoration
 - T&D of stockpiled soils

8



Questions



**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
February 2013 - July 2013**

			INTERNAL DRAFT		DRAFT										RTC		INTERNAL FINAL		FINAL							
Item	Document Title & Information	CTO/DO	Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments						Priority Review	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies	Comments								
						Date Due	DTSC	WATER BOARD	EPA	TIDA/TICD	RAB								OTHER							
Site 6																										
1	UST 240 Post-Construction Summary Report	0002	03/18/13	04/01/13	04/08/13	05/08/13							05/15/13	TBD	06/10/13	06/24/13	07/08/13									
	RPM: Tony Konzen																									
	PM: Phil Skorge, ERRG																									
Site 12																										
2	Bayside/North Point Post-Construction Report	0010	10/18/11 07/03/12	✓ ✓	02/27/12 08/03/12	✓ ✓	09/07/12	✓	10/29/12	✓		X	✓			02/08/13	02/15/13	02/20/13	02/22/13	02/27/13						
	RPM: Tony Konzen																									
	PM: Pete Coutts, Shaw																									
3	SWDA A&B Post-Construction Summary Report (Phase I)	0010	10/25/12	✓	12/10/12	✓	01/28/13	✓	02/27/13							03/13/13	03/20/13	03/31/13	04/07/13	04/15/13						
	RPM: Tony Konzen																									
	PM: Pete Coutts, Shaw																									
4	Site 12 NTCRA for SWDA Hot Spot Removal and Bldg Demo WP (Phase II)	0013	09/28/12	✓	12/07/12	✓	12/14/12	✓	01/18/13	✓			✓	✓		02/01/13	TBD	02/20/13	03/06/13	03/20/13	TIDA (1/18)					
	RPM: Tony Konzen																									
	PM: Bill Dougherty, TtEC																									
	Site 12 Data Gaps Sampling Work Plan and SAP	0039	09/04/12	✓	09/25/12	✓	10/23/12	✓	11/22/12	✓	✓		✓	✓		12/14/12	✓	12/28/12	✓	01/04/13	✓	01/18/13	✓	02/05/13	✓	TIDA/TICD (11/26)
	RPM: Tony Konzen																									
	PM: Doug Gilkey, KCH																									
Site 21																										
5	Site 21 ROD/RAP	0083	11/30/11	✓	12/19/11	✓	02/07/12	✓	03/06/12	✓	✓	✓	✓			04/16/12	✓	04/29/12	✓	05/06/12	✓	05/17/12	✓	02/26/13	ROD sent to BCT on 5/17/12 with redline	
	RPM: Danielle Janda																									
	PM: Jean Michaels, ChaduxTt																									
6	Site 21 Land Use Control RD/RAWP	0001	04/08/13		05/06/13	05/20/13	06/17/13									07/01/13	07/08/13	07/19/13	07/26/13	08/02/13						
	RPM: Danielle Janda																									
	PM: Marcie Rash, TtEMI																									
Site 24																										
7	Phase III Treatability Study Report		03/22/13		04/21/13	05/05/13	06/04/13									07/02/13		07/03/13	08/02/13	08/12/13	08/26/13					
	RPM: Danielle Janda																									
	PM: Neil Hey, Shaw																									
Site 27																										
8	Site 27 Remedial Design	0009	05/31/12* 01/02/13**	✓ ✓	06/20/12* 01/18/13**	✓ ✓	07/16/12* 02/05/13**	✓ ✓	08/16/12* 03/04/13**	✓	✓	✓	✓	✓		11/02/12* 03/12/13**	✓	11/09/12* 04/03/13**	✓	04/17/13	05/03/13	05/13/13		*30% design,**90% design TIDA (8/16), DTSC (8/20), Anchor (8/6), BCDC (8/28), WB (9/4), DFG (9/17), EPA (11/7)		
	RPM: Lora Battaglia																									
	PM: Katie Henry, TriEco-Tt																									
9	Site 27 Remedial Action Work Plan	:	02/15/13		03/16/13	03/30/13	04/27/13									05/16/13		TBD		05/29/13	06/12/13	06/25/13				
	RPM: Lora Battaglia																									
	PM: TtEC																									

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
February 2013 - July 2013**

			INTERNAL DRAFT				DRAFT							RTC			INTERNAL FINAL				FINAL			
Item	Document Title & Information	CTO/DO	Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments							Priority Review	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies	Comments					
						Date Due	DTSC	WATER BOARD	EPA	TIDA/TICD	RAB	OTHER												
Site 30																								
10	Land Use Covenant Inspection Report RPM: Danielle Janda PM: Greg Alyanakian, Trevet	9002	02/23/13	03/09/13	03/23/13	04/22/13								04/29/13	TBD	05/02/13	05/04/13	05/06/13						
Sites 31/33																								
11	Site 31 Remedial Action Completion Report RPM: Lora Battaglia PM:	0002	01/30/13	✓ 06/07/13	06/24/13	07/24/13								08/07/13	08/14/13	08/25/13	09/01/13	09/08/13						
12	Site 31 Final Status Survey Report RPM: Lora Battaglia PM:	0002	06/07/13	07/07/13	07/15/13	08/15/13								08/29/13	09/05/13	09/16/13	09/23/13	09/30/13						
13	Site 33 Remedial Action Completion Report RPM: Lora Battaglia PM:	FZN9	07/31/12	✓ 08/15/12	✓ 09/10/12	✓ 11/02/12	✓		X	✓				06/07/13	06/14/13	06/24/13	07/01/13	07/08/13	DTSC (10/19), TIDA/TICD (10/19), EPA (11/7)					
Building 233																								
14	Building 233 Characterization and FSS Plan RPM: Tony Konzen PM: Pete Coutts, Shaw	:	04/19/13	05/17/13	05/31/13	06/28/13								07/12/13	07/19/13	07/30/13	08/06/13	08/13/13						
15	Building 233 Final Status Survey Report RPM: Tony Konzen PM: Pete Coutts, Shaw	:	09/27/13	10/25/13	11/08/13	12/06/13								12/20/13	12/27/13	01/07/14	01/14/14	01/21/14						
Groundwater Monitoring																								
16	2012 Sites 6 and 12 Groundwater Report RPM: Danielle Janda PM: Greg Alyanakian, Trevet	:	03/31/13	04/14/13	04/21/13	05/21/13								06/04/13	TBD	06/11/13	06/25/13	07/09/13						
17	2012 Sites 21 and 24 Groundwater Report RPM: Danielle Janda PM: Greg Alyanakian, Trevet	:	06/25/13	07/09/13	07/30/13	08/29/13								09/13/13	09/20/13	09/27/13	10/04/13	10/11/13						
18	2013 Sites 6, 12, 21, 24 Groundwater WP and SAP RPM: Danielle Janda PM: Greg Alyanakian, Trevet	:	05/31/13	06/28/13	07/12/13	08/09/13								08/23/13	08/30/13	09/10/13	09/17/13	09/24/13						

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
February 2013 - July 2013**

			INTERNAL DRAFT				DRAFT							RTC			INTERNAL FINAL			FINAL					
Item	Document Title & Information	CTO/DO	Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments						Priority Review	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies	Comments							
						Date Due	DTSC	WATER BOARD	EPA	TIDA/TICD	RAB								OTHER						
Other Reports																									
19	YF3 Field Activity Report	026	06/08/12	✓	07/01/12	✓	07/30/12	✓	09/27/12	X	✓	X	✓			02/12/13		02/26/13		NA		NA		03/19/13	TIDA (8/29), EPA (9/10), WB (9/27)
	RPM: Danielle Janda																								
	PM: Holly Carter, KCH																								
20	Historical Radiological Assessment Tech Memo	0003	05/30/12	✓	06/29/12	✓	08/06/12	✓	10/05/12	✓	✓	✓	✓	✓		01/18/13	✓	02/19/13	02/01/13	02/08/13	02/26/13		SF PUC (10/3), DTSC/CDPH (10/5); TIDA/TICD (10/5), RAB (10/5), EPA (10/10), WB (10/12)		
	RPM: David Clark																								
	PM: Marcie Rash, TriEco-Tt																								
21	TI Times #19 Winter 2012 Newsletter	0003	11/05/12	✓	02/08/13		02/21/13		03/11/13							NA		NA	03/18/13	03/25/13	03/30/13				
	RPM: David Clark																								
	PM: Marcie Rash, TriEco-Tt																								
22	TI Radiological Scoping Surveys Work Plan	0006	01/07/13		02/06/13		02/20/13		03/22/13							03/29/13		TBD	NA	NA	04/12/13		includes Sites 12, 32; road between Sites 6 and 12; Bldg 3; and waste utilities for Bldgs 3, 7, and 233.		
	RPM: Danielle Janda																								
	PM: John Baur, ITSI																								
23	2013 Site Management Plan	0003	03/27/13		05/01/13		05/08/13		06/07/13							06/18/13		TBD	08/03/13	08/14/13	08/28/13				
	RPM: Danielle Janda																								
	PM: Marcie Rash, TriEco-Tt																								

- ✓ Production or review of document is complete.
- X Received notification of no comments or comments deferred to other agency.

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 30 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 30 days.

Abbreviations:

CTO/DO = Contract task order/delivery order
DTSC = Department of Toxic Substances Control
EPA = U.S. Environmental Protection Agency
FS = Feasibility study
HHRA = Human health risk assessment
LUC = Land use control
NA = Not applicable
NTCRA = Non-time critical removal action
PCB = Polychlorinated biphenyls

PM = Project manager
PP = Proposed plan
RAP = Remedial action plan
RASO = Radiological Affairs Support Office
RD = Remedial Design
RAWP = Remedial Action Work Plan
RI = Remedial investigation
ROD = Record of decision
RPM = Remedial project manager

SAP = Sampling and analysis plan
SWDA = Solid waste disposal area
TBD = To be determined
TICD = Treasure Island Community Developers
TIDA = Treasure Island Development Authority
UST = Underground storage tank
Water Board (WB) = Regional Water Quality Control Board
WP = Work Plan

**Naval Station Treasure Island
Navy Field Schedule
February 2013 - July 2013**

Item	Activity and Investigation Area	DTS #	Field Dates	Navy RPM	CTO/DO	Complete
Site 6						
1	Site 6 / UST 240 Corrective Action <i>Site 6</i>	Doc --	Start: 11/12/12 Finish: 03/01/13	Tony Konzen (619) 532-0924	0002	
Site 12						
2	Non-Time Critical Removal Action <i>Site 12</i>	Doc --	Start: 02/26/07 Finish: TBD	Tony Konzen (619) 532-0924	0010	
3	Site 12 Pre-Feasibility Study Sampling <i>Site 12</i>	Doc --	Start: 01/28/13 Finish: 04/07/13	Tony Konzen (619) 532-0924	0039	
Site 27						
4	Site 27 Remedial Action <i>Site 27</i>	Doc 9	Start: 07/02/13 Finish: 10/16/13	Lora Battaglia (619) 532-0968	0003	
Sites 31/33						
5	Sites 31/33 Remedial Action <i>Sites 31 and 33</i>	Doc --	Start: 02/02/12 Finish: 05/30/13	Lora Battaglia (619) 532-0968	FZN9	
Building 233						
6	Building 233 Debris Screening / Final Status Survey <i>Building 233</i>	Doc --	Start: 01/30/12 Finish: TBD	Tony Konzen (619) 532-0924	0010	
Groundwater Monitoring						
7	Sites 21, 24 - 4th Quarter Groundwater Sampling <i>Sites 21 and 24</i>	Doc --	Start: 03/04/13 Finish: 03/13/13	Danielle Janda (619) 532-0796	5011	
8	Sites 6,12 - Groundwater Sampling <i>Sites 6 and 12</i>	Doc --	Start: 03/14/13 Finish: 03/15/13	Danielle Janda (619) 532-0796	5011	
Other						
9	Scoping Surveys - Various Sites <i>Building 3, Sites 12, 32, and roads between Sites 6 and 12; and Waste Utilities at Bldgs 3, 7, and 233</i>	Doc 23	Start: 04/15/13 Finish: 07/15/13	Danielle Janda (619) 532-0796	0006	

Abbreviations:

-- Not applicable, there is no associated documentation listed on the DTS.
 CTO/DO Contract task order/delivery order
 DTS # The number listed corresponds to the associated documentation listed on the Document Tracking Sheet.
 RPM Remedial project manager
 TBD To be determined
 UST Underground storage tank

✓ Field work is complete.

Yellow shading indicates field activities that will start or finish within the next 30 days.

Grey shading indicates field activities are complete.



Naval Station Treasure Island



Site 21

BRAC Cleanup Team (BCT) Meeting
February 6, 2013



Next Step – ROD Finalization



- Wednesday, February 23: Final Site 21 ROD pdf will be sent to RWQCB and DTSC
- Wednesday, February 23: The Navy will hand off the signature page to DTSC
- Once DTSC has reviewed the ROD and signed the signature page, Tetra Tech will pick up the signature page from DTSC and bring it to RWQCB
- Once RWQCB has reviewed the ROD and signed the signature page, Tetra Tech will pick up the signature page and produce copies of the Final ROD for distribution
- A public notice will be posted in the San Francisco Union Tribune when the ROD is in the repositories



Description of the Selected Remedy



- A deed notice will be recorded to notify the public about the existence of potential contamination at Site 21.
- The deed for transfer of the property will require the property owner to provide a notification to future users of the southeast corner of Building 3, within the Site 21 boundary (Figure 3), where the **risk estimates calculated in the HHRA Addendum(26) slightly exceed regulatory criteria for commercial/industrial** occupants if this area, which is not currently enclosed, is fully enclosed at some point in the future. The notification shall describe the screening-level health risk estimates associated with the COCs remaining at the site. The deed notice will also require the property owner to notify DTSC of improvements in this area that result in the area being fully enclosed. The notification requirement shall be removed when it is demonstrated that the residual soil gas concentrations are below the SSSLs for commercial/industrial use.

3



Description of the Selected Remedy



- A deed restriction will be recorded to: (1) prohibit all uses of groundwater beneath Site 21 including groundwater extraction, except for dewatering purposes (extracted groundwater must be handled in accordance with all laws and as described in a site management plan); (2) require evaluation and potential installation of engineering controls if new non-commercial buildings are constructed or the current land use of existing buildings changes; and (3) prohibit residential use, unless appropriate engineering controls are implemented that are protective of residential receptors.
- A LUC RD report will be developed to specify the IC implementation actions and the roles and responsibilities for implementing, monitoring, and enforcing the ICs. The LUC RD would include: (1) the duration of the ICs; (2) the mechanisms that would be used to implement ICs and achieve the IC objectives; and (3) implementation actions necessary to ensure that the ICs and IC objectives are met, including inspecting, monitoring, reporting and enforcing the ICs.

4



Description of the Selected Remedy



- Soil gas and groundwater monitoring will be conducted to confirm that the human health risk from the vapor intrusion pathway remains in the acceptable range. Soil gas and groundwater samples will be collected from existing soil gas and groundwater monitoring wells until the next NAVSTA TI 5-year review. Results will be evaluated and compared to the soil gas SSSLs and groundwater remedial goals to determine if the vapor intrusion pathway risk remains stable and within or below the risk management range for nonresidential users. The vapor intrusion pathway risk will be considered stable if COC concentrations do not show long term increasing trends. The soil gas and groundwater monitoring network and analyses will be designed, with input from regulatory agencies, as part of the NAVSTA TI base-wide monitoring activities.

5



Description of the Selected Remedy

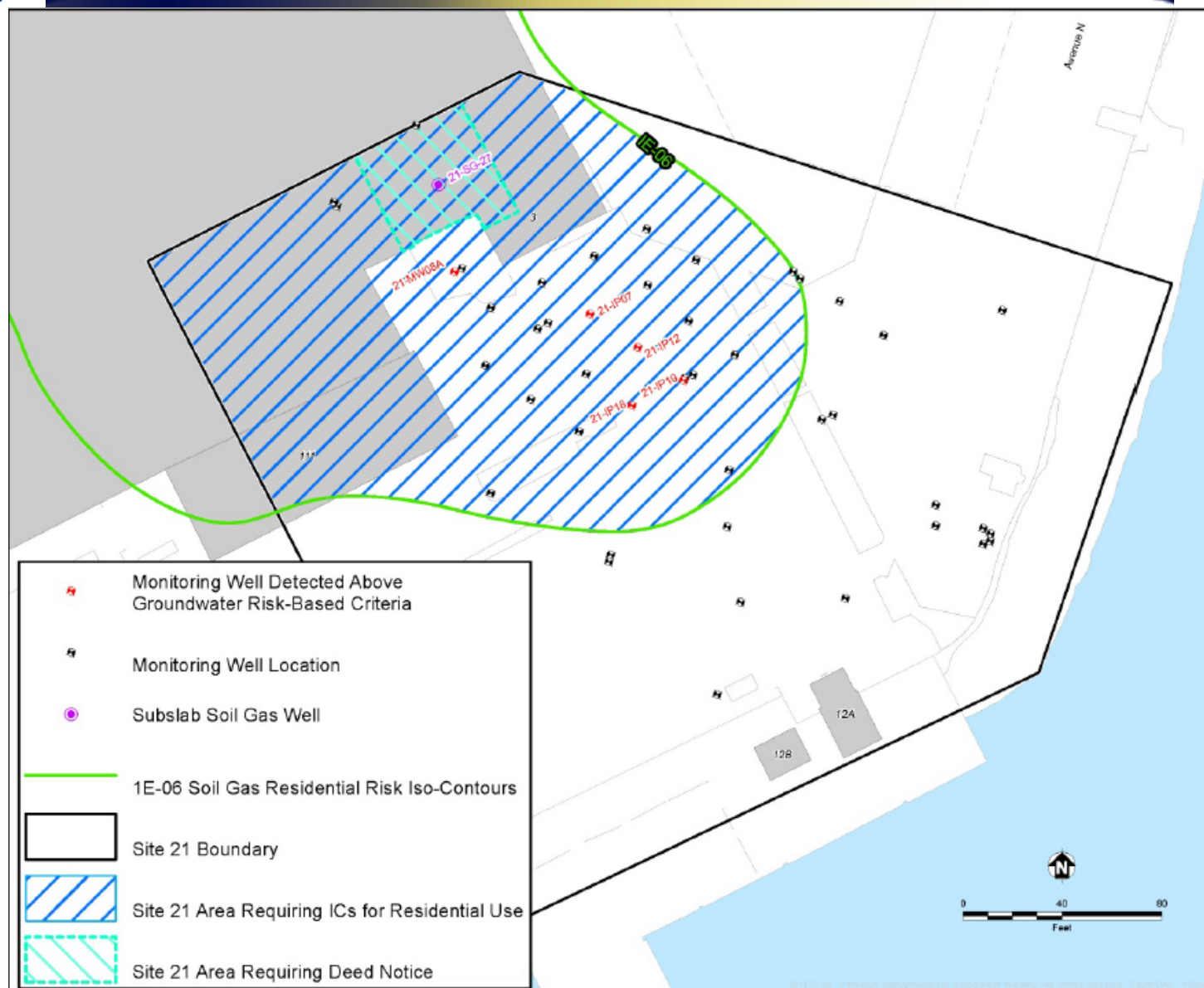


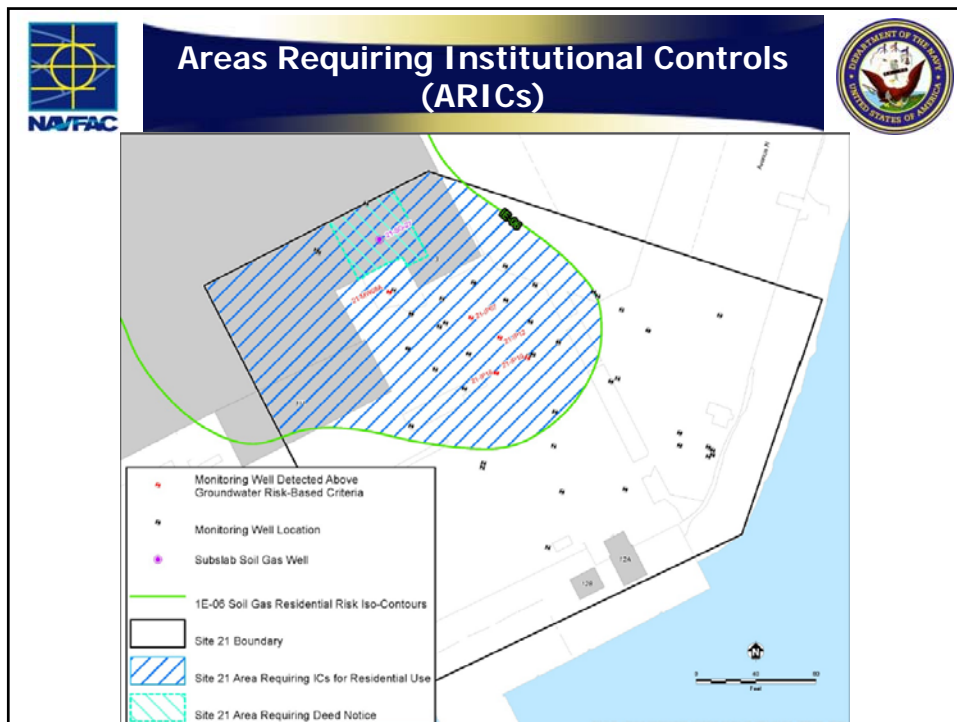
- A site management plan will be developed that will specify the characterization, handling, and disposal requirements in the event that contaminated media are encountered during site redevelopment or maintenance activities. The site management plan will be enforced through the deed restriction.
- Five-year reviews and reporting will be conducted to ensure the continued effectiveness of the ICs.

6



Areas Requiring Institutional Controls (ARICs)





Remedy Implementation

- Site 21 Land Use Control RD/RAWP
 - Deed language required to implement the restrictions
 - Language to be included in the Deed Notices
 - LUC inspection details
 - Identifies responsibilities of the Navy and/or future Landowners
 - Draft RD/RAWP planned for agency distribution in May 2013
- Groundwater and Soil Gas Monitoring
 - To be implemented in conjunction with the base-wide monitoring activities
 - Draft Sampling and Analysis Plan estimated to be distributed to the agencies in July 2013
 - First sampling event planned for Fall 2013
- Five-Year Review
 - Basewide 5-year review will be in 2014



Naval Station Treasure Island



Site 24

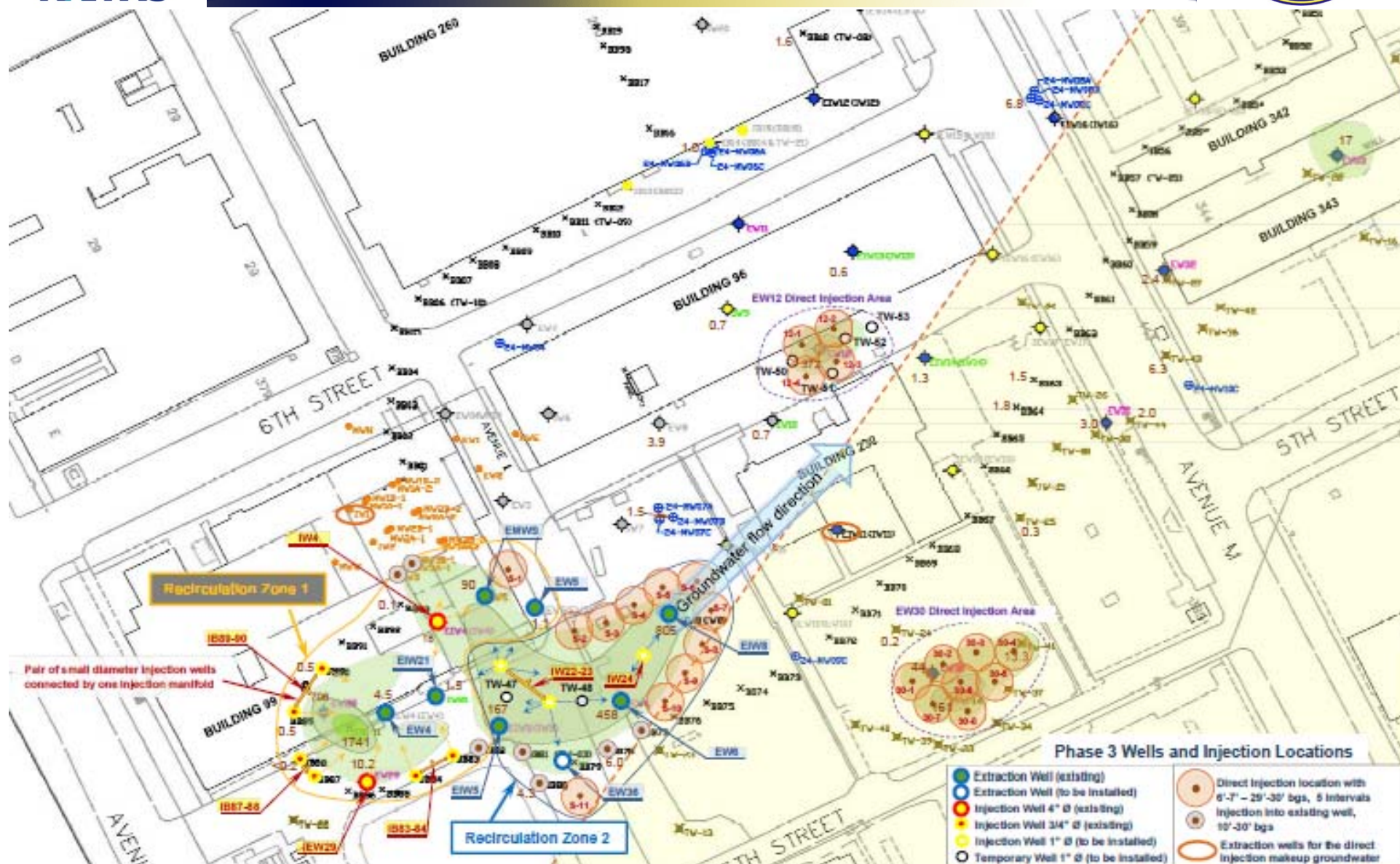
BRAC Cleanup Team (BCT) Meeting
February 6, 2013

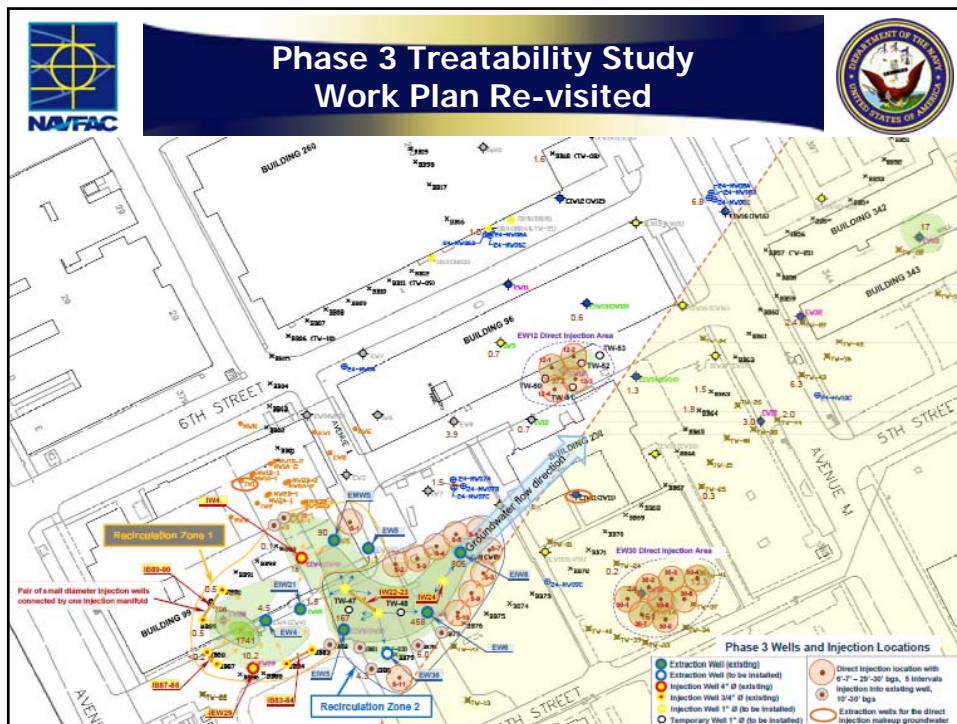


SITE 24 – 2012



- Phase 3 Treatability Study
 - **December 2011/January 2012:** Mobilization and System Set-up
 - **February 2012:** Substrate Injections
 - **February through May 2012:** Recirculation
 - **December:** System Demobilization
- Limited Soil Gas Sampling
 - **December 2011/January 2012:** Collected 7 samples
- Quarterly Groundwater Monitoring





Work Plan Re-visited

- **Biobarrier Well Injection**
 - Substrate: sodium lactate and emulsified vegetable oil
 - Estimated 7,000 gallons of substrate injected
 - 7 Biobarrier Wells
- **Direct Push Injections**
 - Substrate: sodium lactate and emulsified vegetable oil, LactOil™
 - Estimated 32,000 gallons of substrate injection
 - 23 injection locations
- **Recirculation**
 - Substrate: lactic acid
 - Estimated 2,035 gallons of substrate mixed with groundwater
 - Estimated 45 Liters of SDC-9TM consortium (bioaugmentation bacteria) added to recirculation
 - Recirculated for 5 months

BEFORE TREATMENT
Chlorinated Ethene Plume Map
January 2012

Groundwater flow direction

Groundwater flow direction

Legend:

- TEMPORARY WELLS
- BIOBARRIER WELLS
- PHASE 1 EXTRACTION AND INJECTION WELLS
- MONITORING WELLS
- PILOT STUDY WELLS
- PHASE 2 EXTRACTION WELLS
- PHASE 2 INJECTION WELLS

Quarter 4 Data (B-zone), Total Chlorinated Ethenes, ug/L

Well Sampled During Quarter 4 (January 2012) Sampling Event

Supplemental Quarter 3 Data, Total Chlorinated Ethenes, ug/L

Scale: 0 50 100 FEET

Shaw Environmental, Inc.
 DEPARTMENT OF THE NAVY SOUTHWEST DIVISION
 NAVAL FACILITIES ENGINEERING COMMAND
 SAN DIEGO, CALIFORNIA

Figure 11
IR Site 24 Plume Layout,
4th Quarter (January 2012)
 NAVAL STATION TREASURE ISLAND
 SAN FRANCISCO, CALIFORNIA

Figure 11
IR Site 24 Plume Layout,
4th Quarter (January 2012)
NAVAL STATION TREASURE ISLAND
SAN FRANCISCO, CALIFORNIA

November 2012

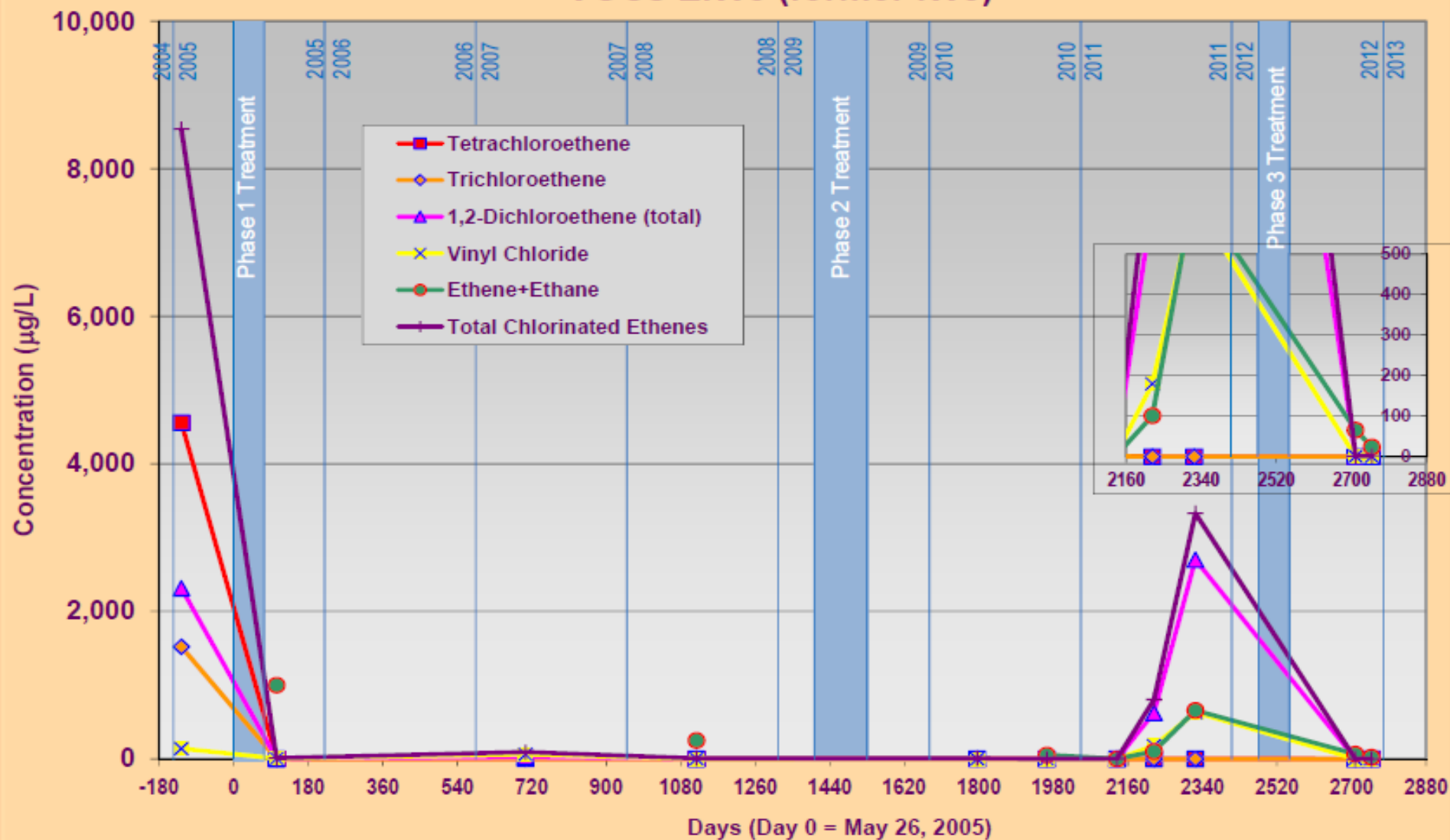




Source Area



VOCs EIW8 (former IW8)

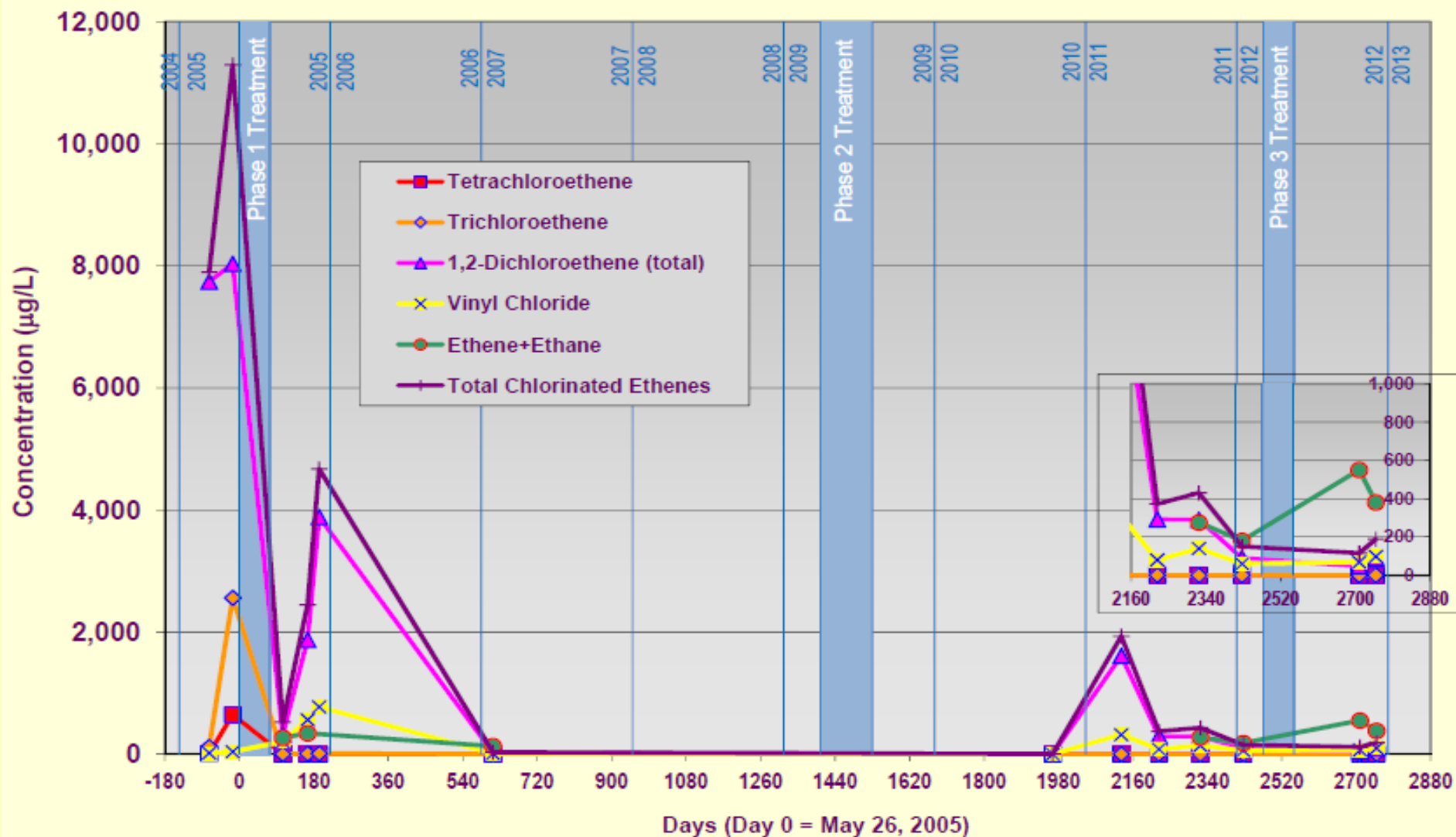




Dissolved Plume Area



VOCs EW12

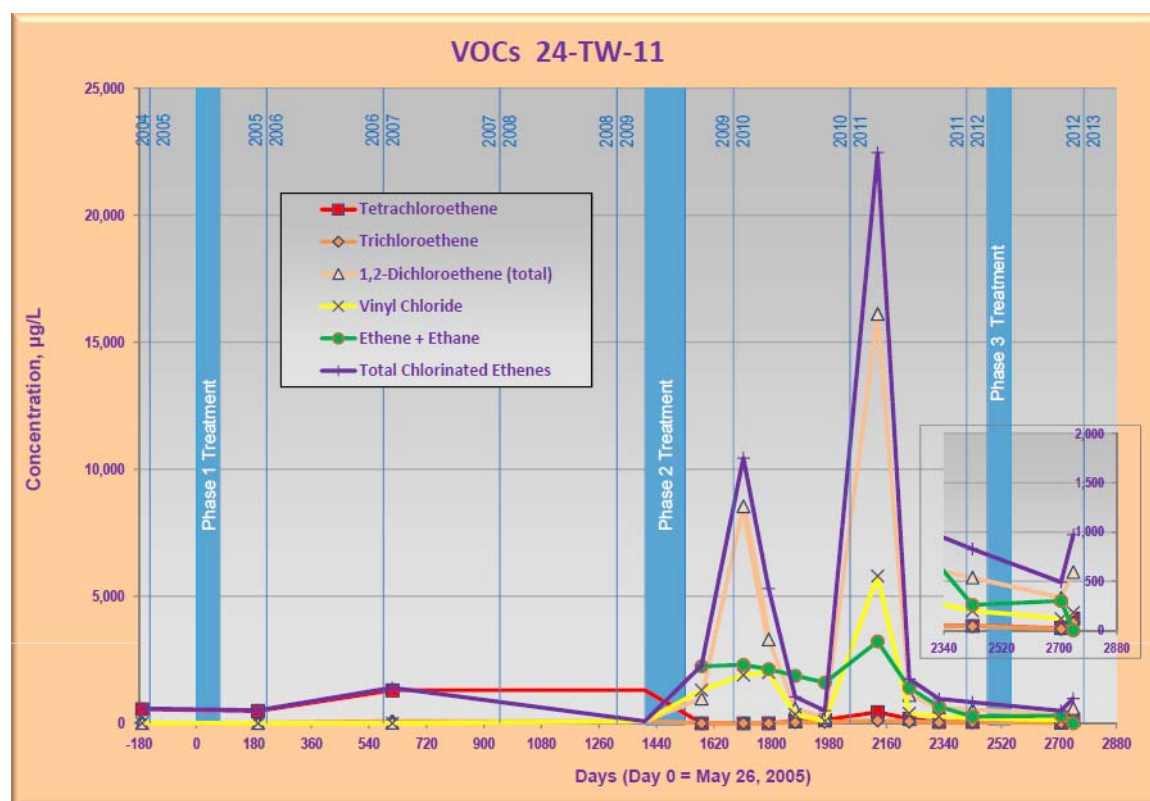




Preview: Conclusions



- The results show the treatability study successfully achieved the established remediation goals of the project at most parts of the site. In situ bioremediation was shown to be an effective mechanism for treatment of groundwater with both low concentrations and high concentrations of chlorinated ethenes at Site 24.
- Spikes in PCE and TCE concentrations in well 24-TW-11 occurred in the December sampling event

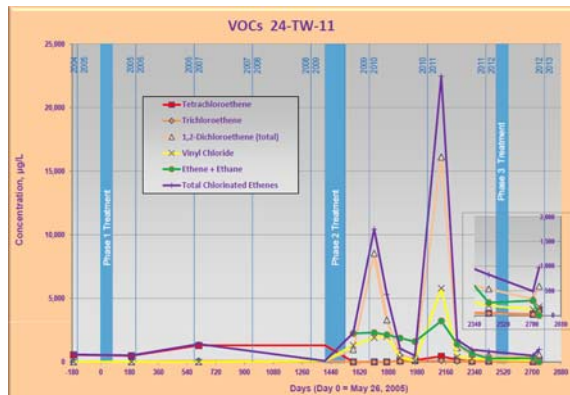




Preview: Conclusions



- The results show the treatability study successfully achieved the established remediation goals of the project at most parts of the site. In situ bioremediation was shown to be an effective mechanism for treatment of groundwater with both low concentrations and high concentrations of chlorinated ethenes at Site 24.
- Spikes in PCE and TCE concentrations in well 24-TW-11 occurred in the December sampling event



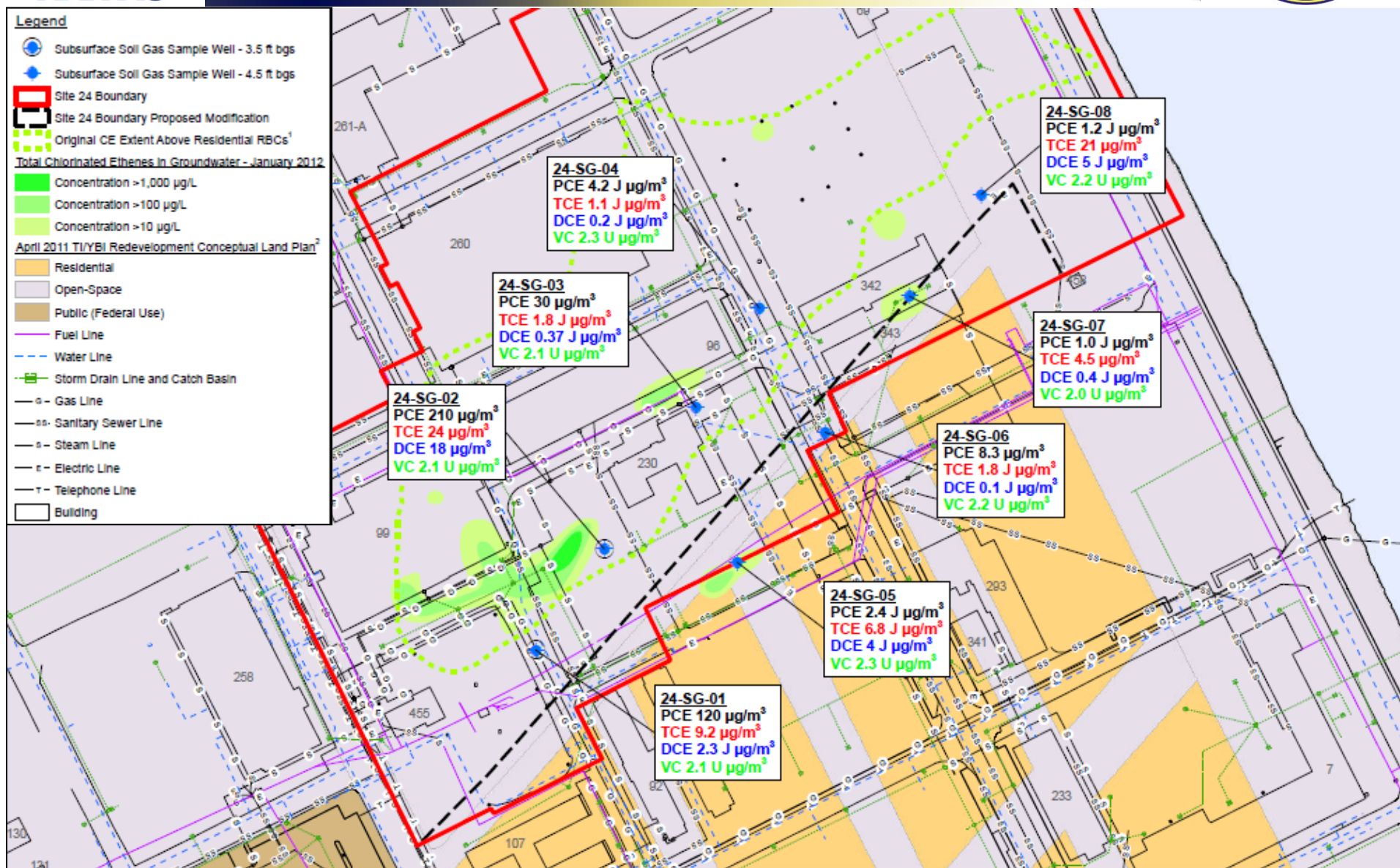
Site 24 Soil Gas Sampling



- Done Concurrently with the Site 21 Investigation
- Collected 8 samples focusing on the future housing area
- Developed Site Specific Screening Levels
- No VOC results were above the screening levels

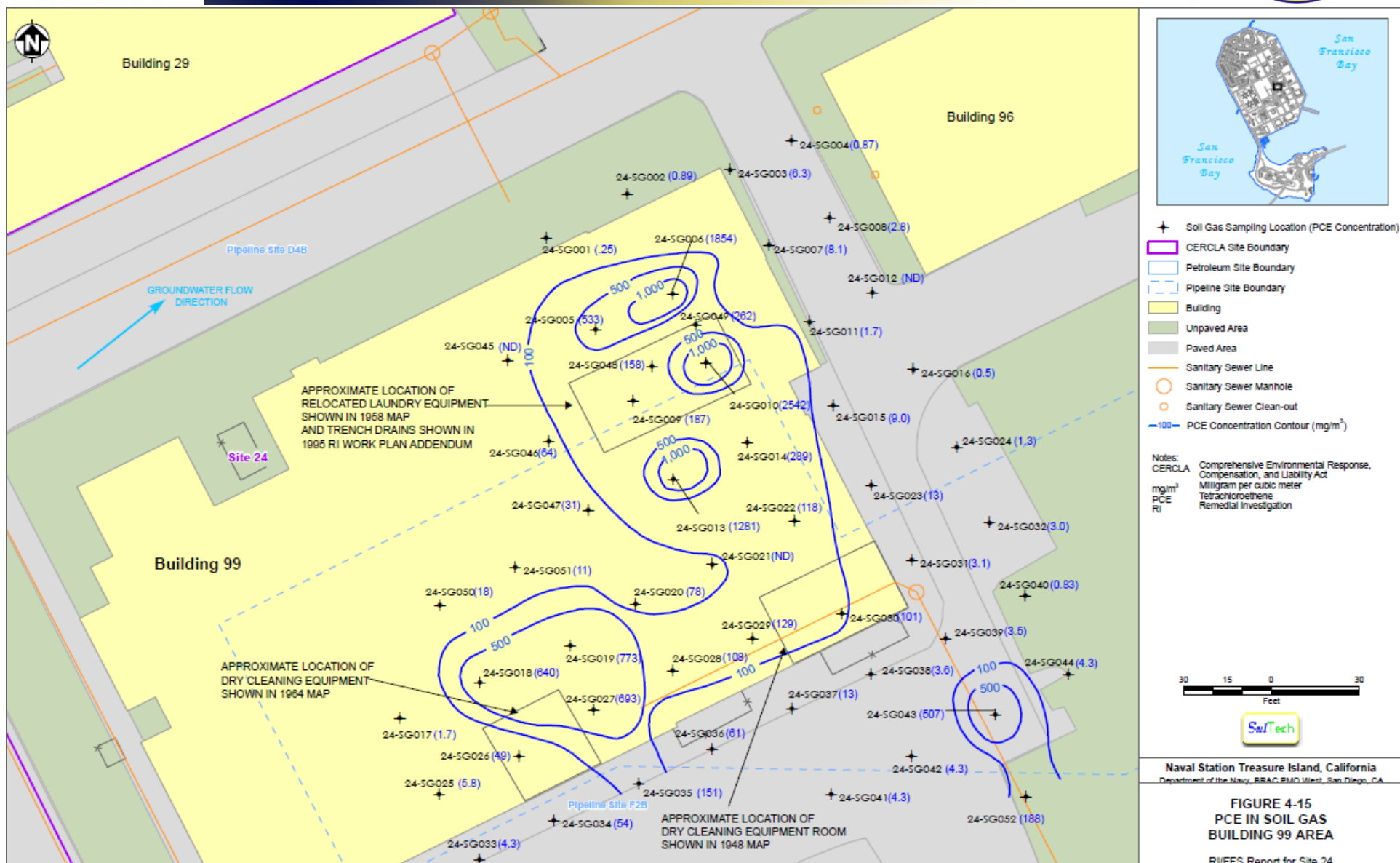


Soil Gas Sampling Results





A Look Back: 2001 Soil Gas Investigation





Site 24 – 2013



- Treatability Study Report
 - Internal Draft: March 22, 2013
 - Draft: May 5, 2013
- Proposed Plan !!!
 - Spring 2013
- Record of Decision
 - Fall 2013

13



Next Step: Select a Remedy



Remedial Alternatives Evaluated in the Focused Feasibility Study

- Alternative 1: No Action
- Alternative 2: ECs, ICs, and Groundwater Monitoring
- Alternative 3A: Enhanced ISB of Groundwater and Groundwater Monitoring
- Alternative 3B: Enhanced ISB of Groundwater, ICs, and Groundwater Monitoring

14



Naval Station Treasure Island



Site 30 CERCLA Update

BRAC Cleanup Team (BCT) Meeting
February 6, 2013



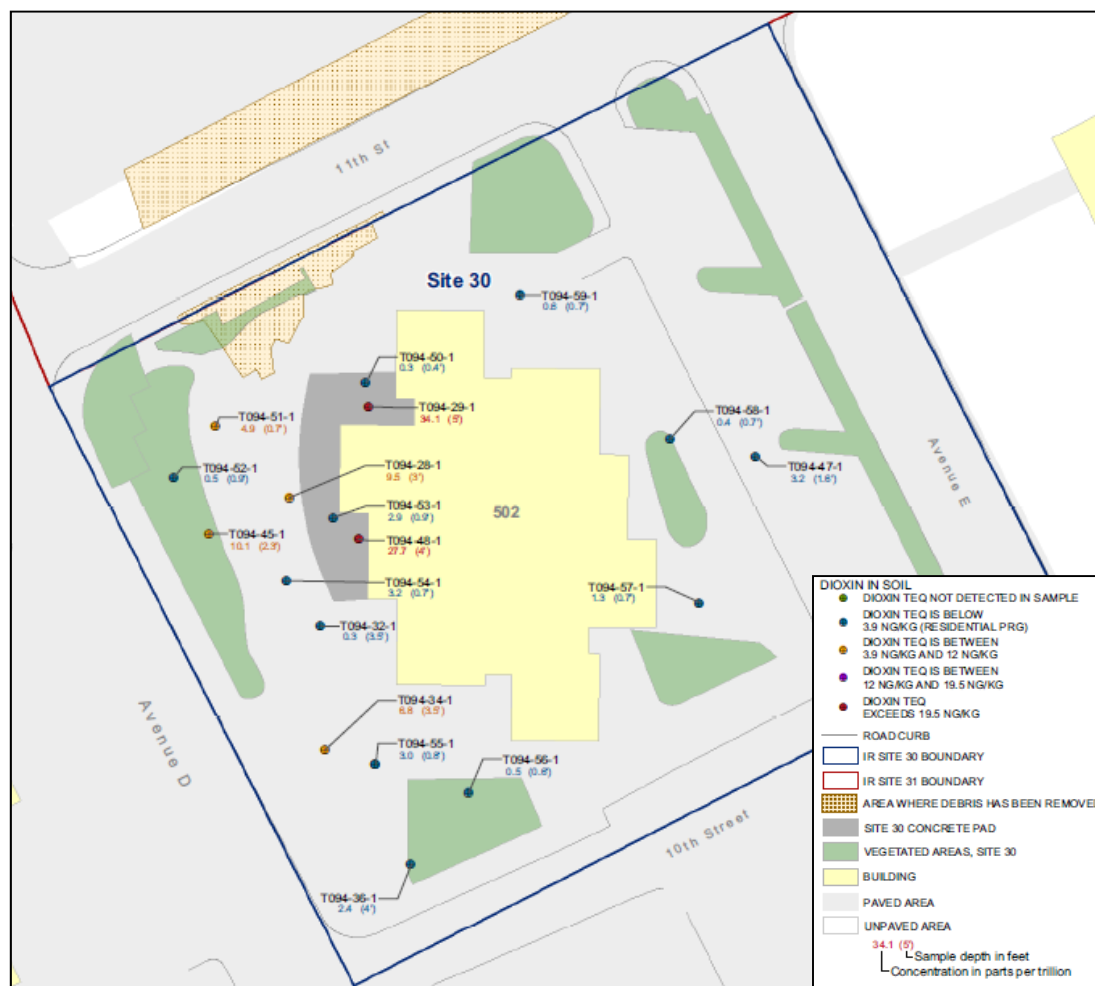
IR Site 30: CERCLA History



- 2002: Identification of an **"Old Trash Dump"** on old public works maps
- 2002/2003: Time Critical Removal Action
 - Removed Debris
 - Installed a Concrete Pad
- 2006: RI/FS
 - COC is dioxin TEQ
 - Contaminants remaining underneath the Building and concrete slab
- 2009: Record of Decision
 - Maintain the building slab to prevent exposure to contaminants



Site 30 Record of Decision Revisited



- Navy built the childcare facility in 1985
- Lease to San Francisco and re-opened as a day-care center in 2003
- TCRA removed debris from the site in 2002/2003
- Dioxin TEQ remaining in the soil underneath the Building
- Selected Remedy includes Engineering Controls and Institutional Controls



Site 30 Remedy: Land Use Controls



- Annual Land Use Control Inspections
 - Verify the integrity of Building 502 slab and the concrete pad
 - Restrict the removal of the Building 502 slab
 - If utility repairs are required, measure must be implemented to prevent exposures



Current Activities



- No LUC violations to date
- Last Inspection, January 2013
- Internal Draft LUC Report expected February 23, 2013
- Draft LUC Report to the report expected March 23, 2013
- Five-year review required 2014



Naval Station Treasure Island



Site YF3

BRAC Cleanup Team (BCT) Meeting
February 6, 2013



2003 Caps Report Revisited: Soil

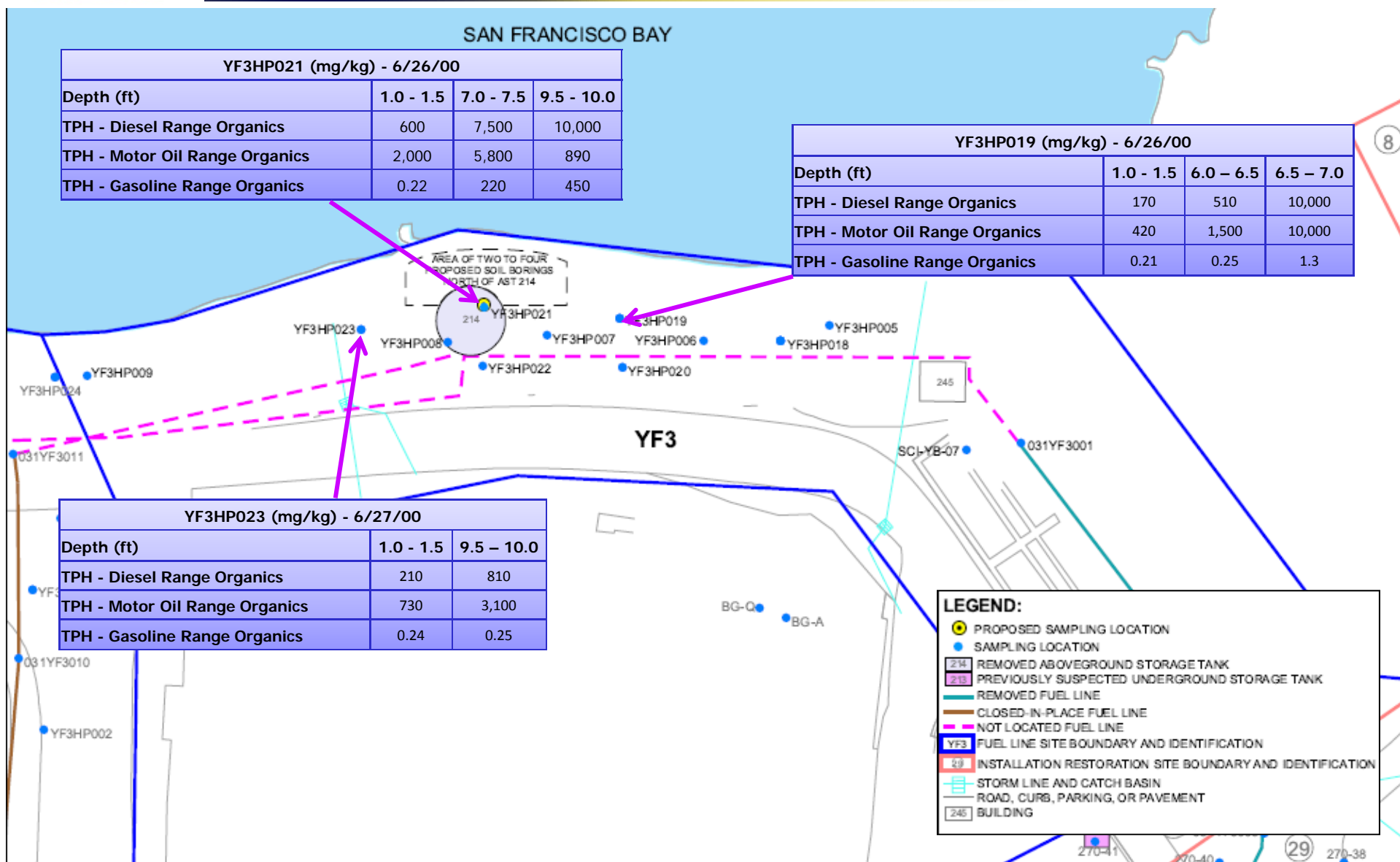


SAN FRANCISCO BAY

YF3HP021 (mg/kg) - 6/26/00			
Depth (ft)	1.0 - 1.5	7.0 - 7.5	9.5 - 10.0
TPH - Diesel Range Organics	600	7,500	10,000
TPH - Motor Oil Range Organics	2,000	5,800	890
TPH - Gasoline Range Organics	0.22	220	450

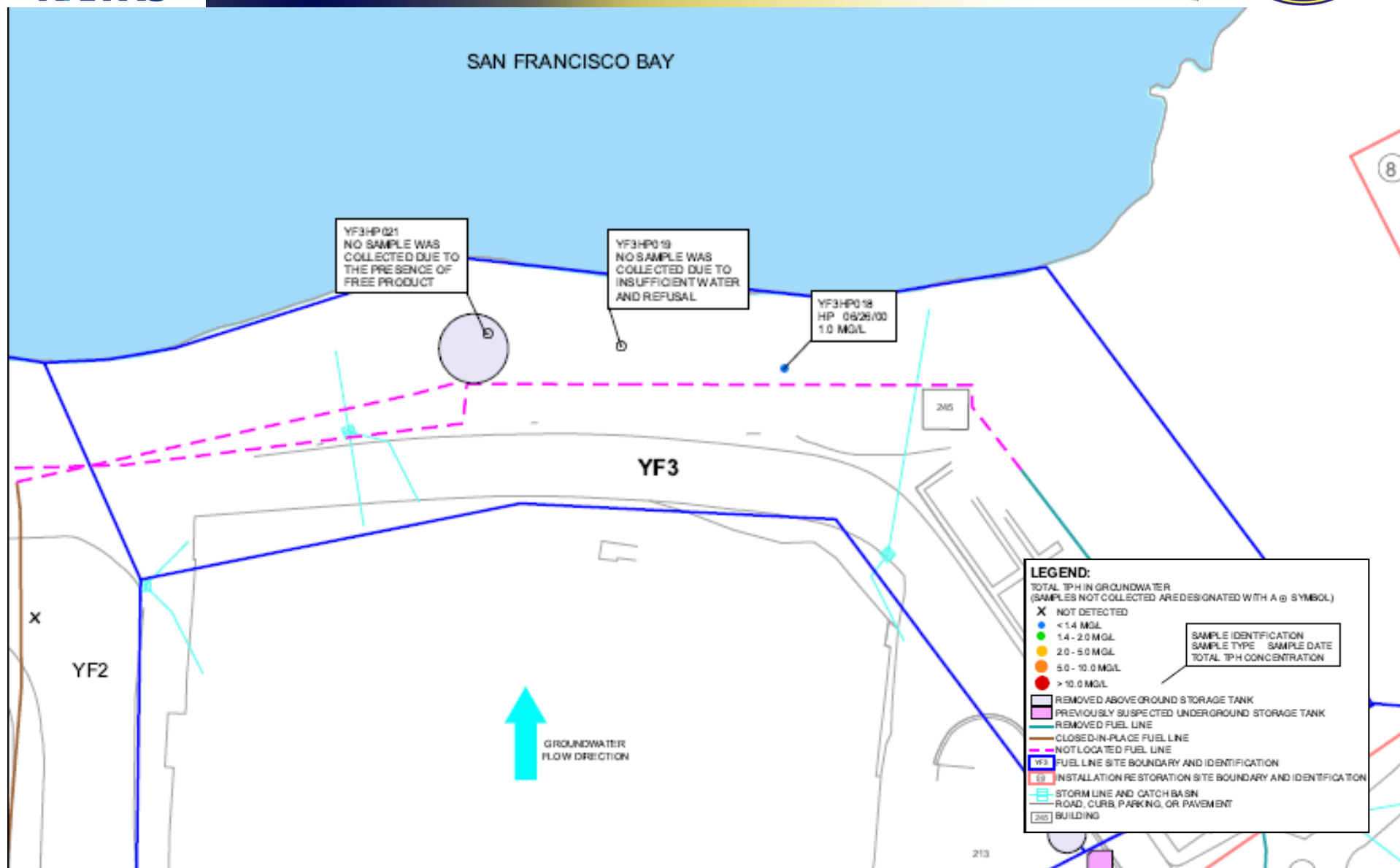
YF3HP019 (mg/kg) - 6/26/00			
Depth (ft)	1.0 - 1.5	6.0 - 6.5	6.5 - 7.0
TPH - Diesel Range Organics	170	510	10,000
TPH - Motor Oil Range Organics	420	1,500	10,000
TPH - Gasoline Range Organics	0.21	0.25	1.3

YF3HP023 (mg/kg) - 6/27/00		
Depth (ft)	1.0 - 1.5	9.5 - 10.0
TPH - Diesel Range Organics	210	810
TPH - Motor Oil Range Organics	730	3,100
TPH - Gasoline Range Organics	0.24	0.25





2003 Caps Report Revisited: Groundwater





2012 Activities



- Sampling at YF3 was completed on March 14
 - 15 Soil Samples and 5 Groundwater Samples were taken from 5 borings
 - Samples were analyzed for VOCs, TPHs and PAHs

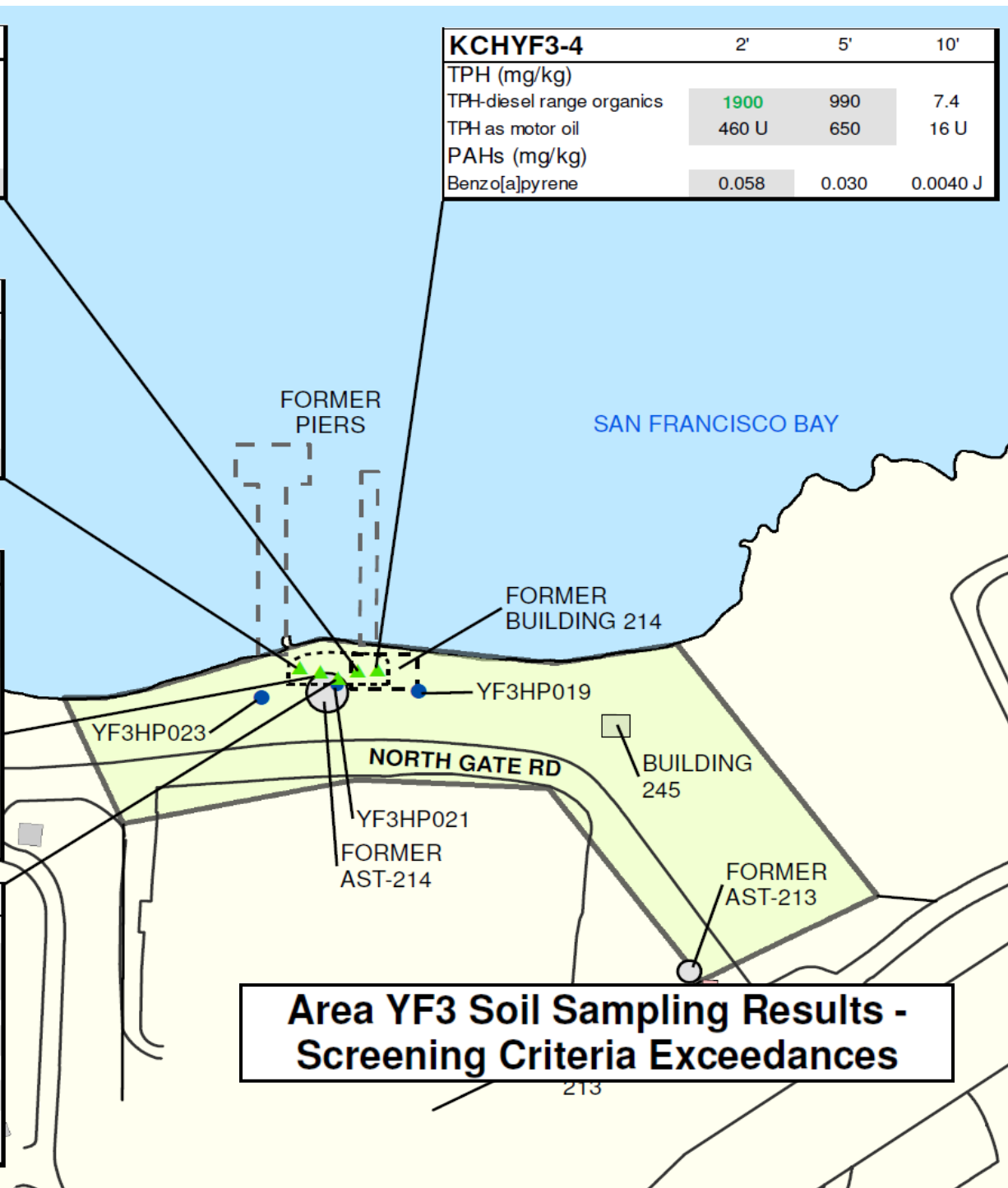
KCHYF3-2	2'	5'	10'
TPH (mg/kg)			
TPH-diesel range organics	610	950	10
TPH as motor oil	430 J	640	15 J
PAHs (mg/kg)			
Benzo[a]pyrene	0.040	0.056	0.23

KCHYF3-4	2'	5'	10'
TPH (mg/kg)			
TPH-diesel range organics	1900	990	7.4
TPH as motor oil	460 U	650	16 U
PAHs (mg/kg)			
Benzo[a]pyrene	0.058	0.030	0.0040 J

KCHYF3-5	2'	5'	10'
TPH (mg/kg)			
TPH-diesel range organics	3200	320	100 J
TPH as motor oil	2200	360.00 U	70 J
PAHs (mg/kg)			
2-methylnaphthalene	0.35	0.012	0.0063
Benzo[a]pyrene	0.078	0.065	0.23

KCHYF3-3	2'	5'	10'
TPH (mg/kg)			
TPH-gasoline range organics	440 J	1.1 ^a	5.5 ^a
TPH-diesel range organics	990	6500	120
TPH as motor oil	550	2800	67
VOCs (µg/kg)			
Naphthalene	1600	40 U	42 U
PAHs (mg/kg)			
Benzo[a]pyrene	0.015	0.18	0.095
Fluorene	0.028	2.9	0.094
Phenanthrene	0.032	3.3	0.21

KCHYF3-1	2'	5'	10'
TPH (mg/kg)			
TPH-diesel range organics	2200	900	820
TPH as motor oil	2100	1200	420 U
PAHs (mg/kg)			
2-methylnaphthalene	0.0020 U	0.0020 U	0.57 J
Benzo[a]anthracene	0.38	0.052	0.096 J
Benzo[a]pyrene	0.30	0.029	0.080
Benzo[k]fluoranthene	0.45 J	0.057 J	0.12 J
Dibenz[a,h]anthracene	0.078	0.0020 U	0.014



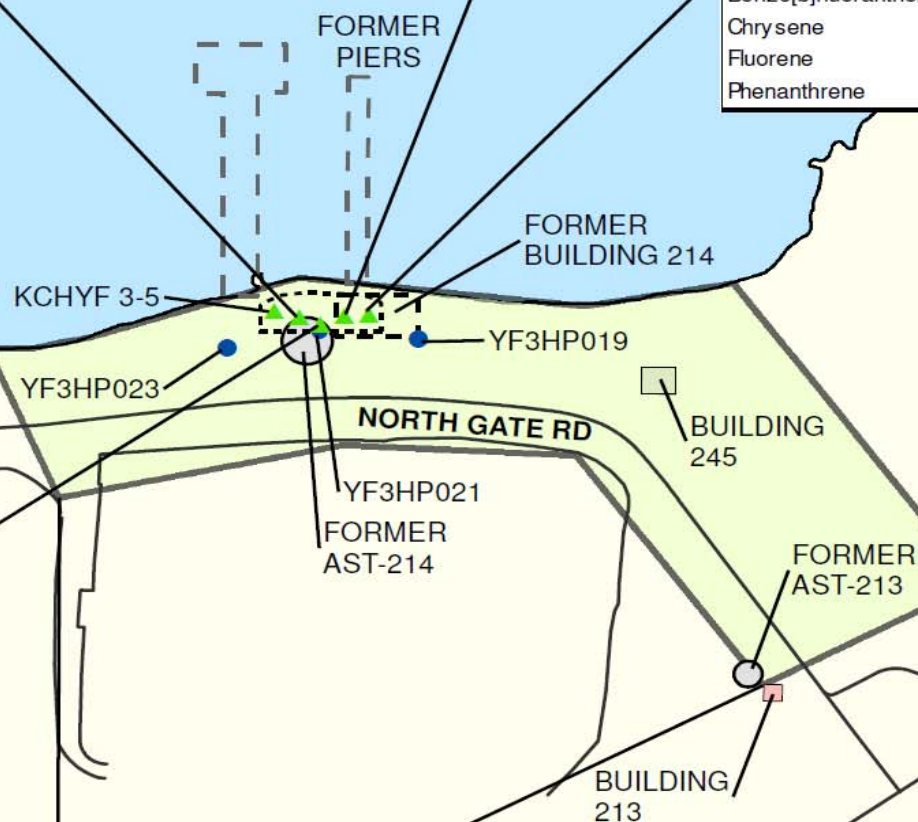
Area YF3 Groundwater Sampling Results-Screening Criteria Exceedances

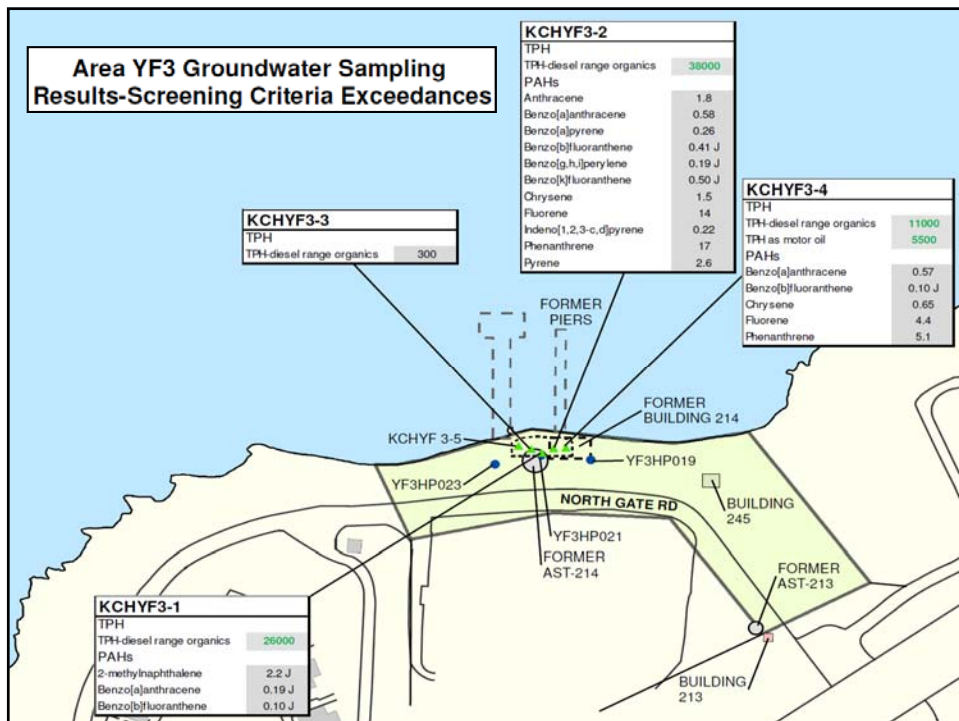
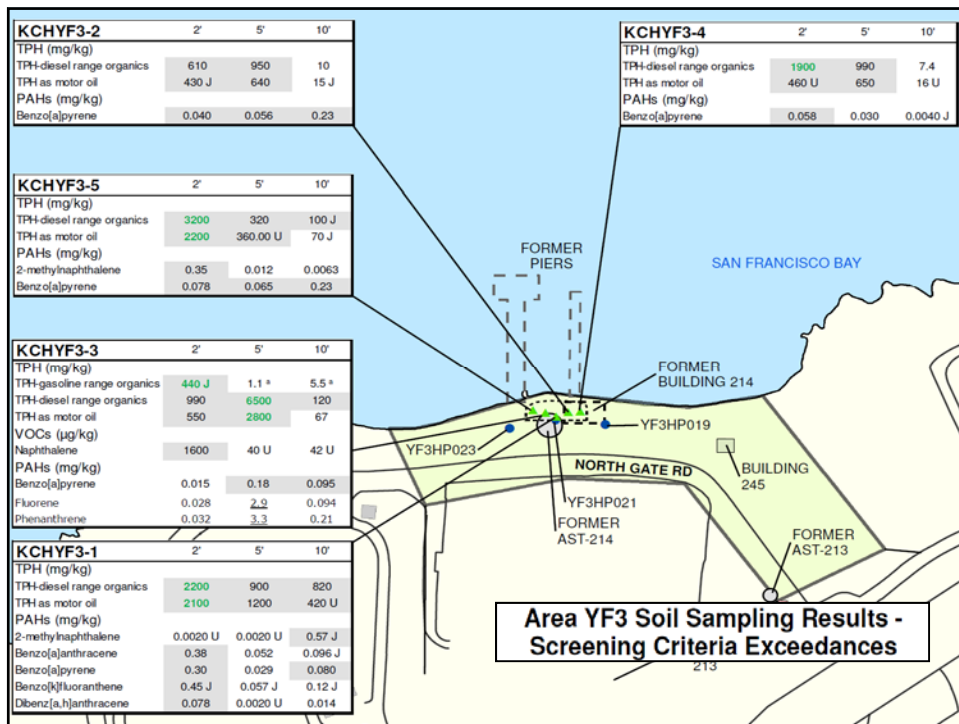
KCHYF3-3	
TPH	
TPH-diesel range organics	300

KCHYF3-2	
TPH	
TPH-diesel range organics	38000
PAHs	
Anthracene	1.8
Benzo[a]anthracene	0.58
Benzo[a]pyrene	0.26
Benzo[b]fluoranthene	0.41 J
Benzo[g,h,i]perylene	0.19 J
Benzo[k]fluoranthene	0.50 J
Chrysene	1.5
Fluorene	14
Indeno[1,2,3-c,d]pyrene	0.22
Phenanthrene	17
Pyrene	2.6

KCHYF3-4	
TPH	
TPH-diesel range organics	11000
TPH as motor oil	5500
PAHs	
Benzo[a]anthracene	0.57
Benzo[b]fluoranthene	0.10 J
Chrysene	0.65
Fluorene	4.4
Phenanthrene	5.1

KCHYF3-1	
TPH	
TPH-diesel range organics	26000
PAHs	
2-methylnaphthalene	2.2 J
Benzo[a]anthracene	0.19 J
Benzo[b]fluoranthene	0.10 J







FIELD WORK LIMITATIONS



- **Access:** Only viable access route for large equipment is by barge
- **Geology:** Requires large drilling equipment
- **Habitat:** Eelgrass is located off the shore of the site
- **Tides:** Have to coordinate with low tides; small window of time for field work

7



Current Activities



Field Activity Report

- Tuesday, February 12: Responses to Comments on the Field Activity Report to be submitted to the BCT
- March 19, 2013: Final Field Activity Report

Next Step

- **Screening Level Ecological Risk Assessment**
 - BCT Scoping Meeting Anticipated in May 2013
 - Draft Document Anticipated in August 2013

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Naval Station Treasure Island



Groundwater Monitoring Sites 6, 12, 21 and 24

BRAC Cleanup Team (BCT) Meeting
February 6, 2013



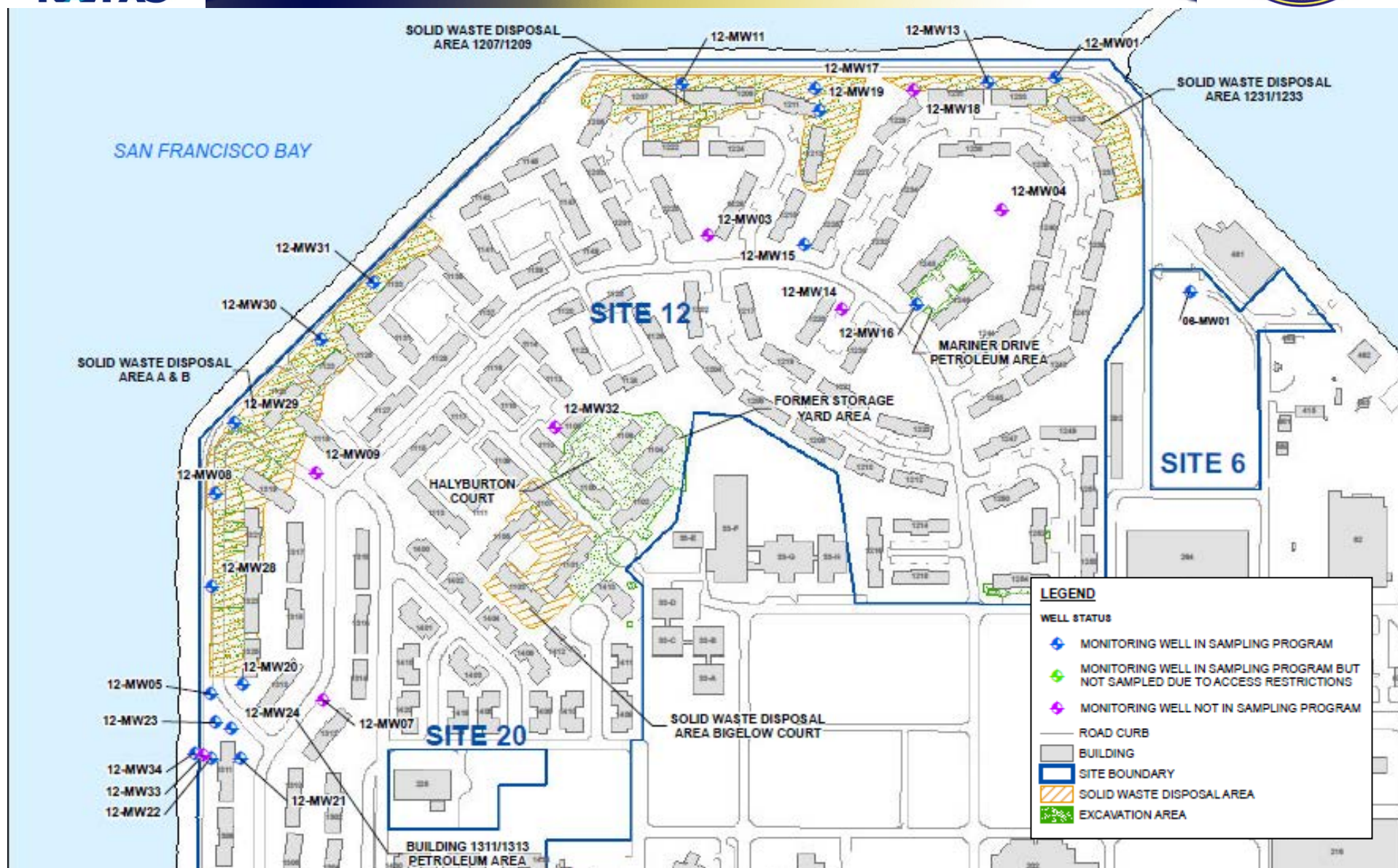
Site 12 and 6 Sampling Constituents



- Groundwater Levels – Semi-annually
- Site 6 – Quarterly
 - VOCs, TPH
- SWDA A & B – Annually (one well semi-annually)
 - VOCs, TPH, Metals, Mercury, TDS, TSS, Ra-226
- SWDA 1207/1209 – Annually
 - VOCs, TPH, Metals, Mercury, TDS, TSS, Ra-226
- Building 1311/1313 Petroleum Area – Annually (some wells semi-annually)
 - TPH, Metals, Mercury, TDS, TSS, Anions, Dissolved Gases, General Chemistry, Ra-226
- Marina Drive Petroleum Area – Semi-annually
 - Metals, Mercury, TDS, TSS, Ra-226

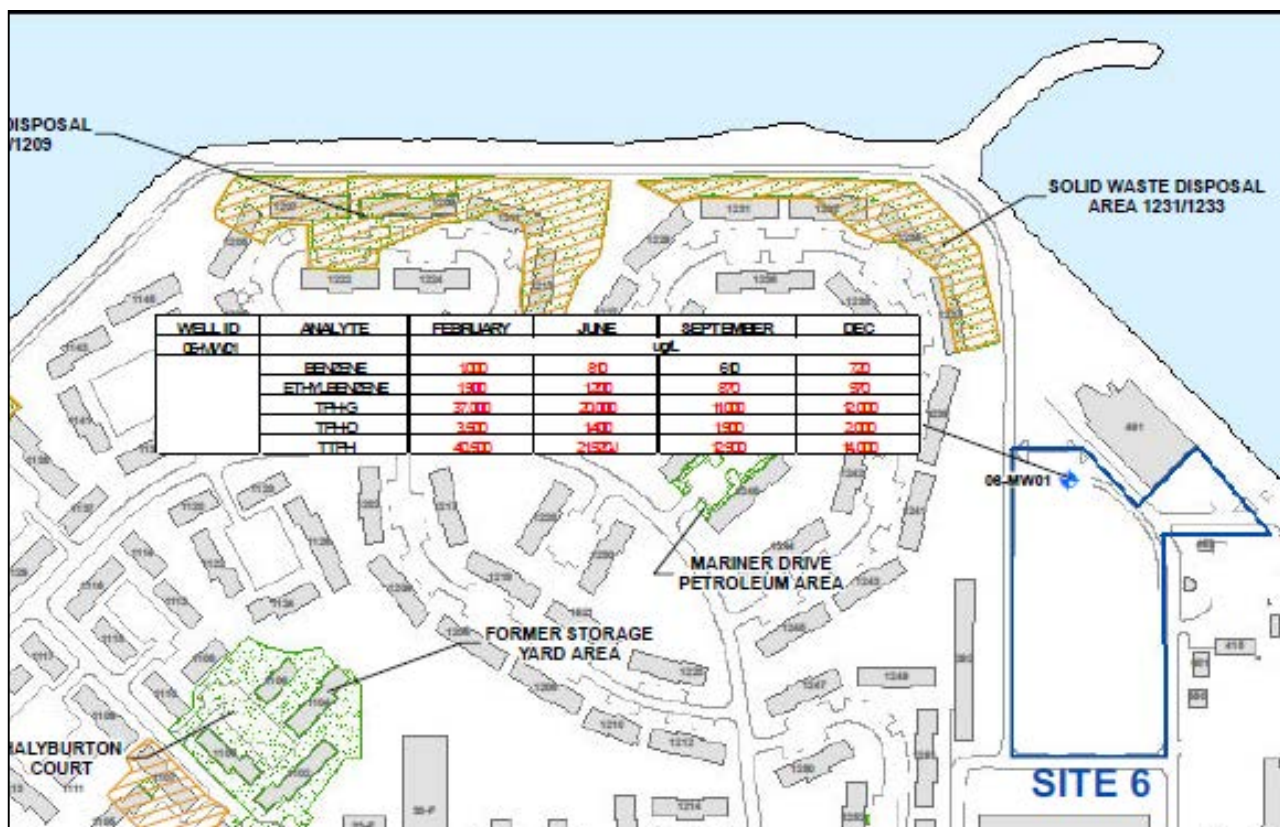


Sites 6 and 12 Monitoring Well Network





Groundwater Concentrations Before Removal Action



Site 24 Plume Map, September 2012

24-EW-11 (µg/L) - September 26, 2012

PCE	TCE	cis-1,2-DCE	VC
0.50 U	4.8	5,000	1,400

24-TW-53 (µg/L) - September 26, 2012

PCE	TCE	cis-1,2-DCE	VC
3.1	11	520	41

24-EW-32 (µg/L) - September 25, 2012

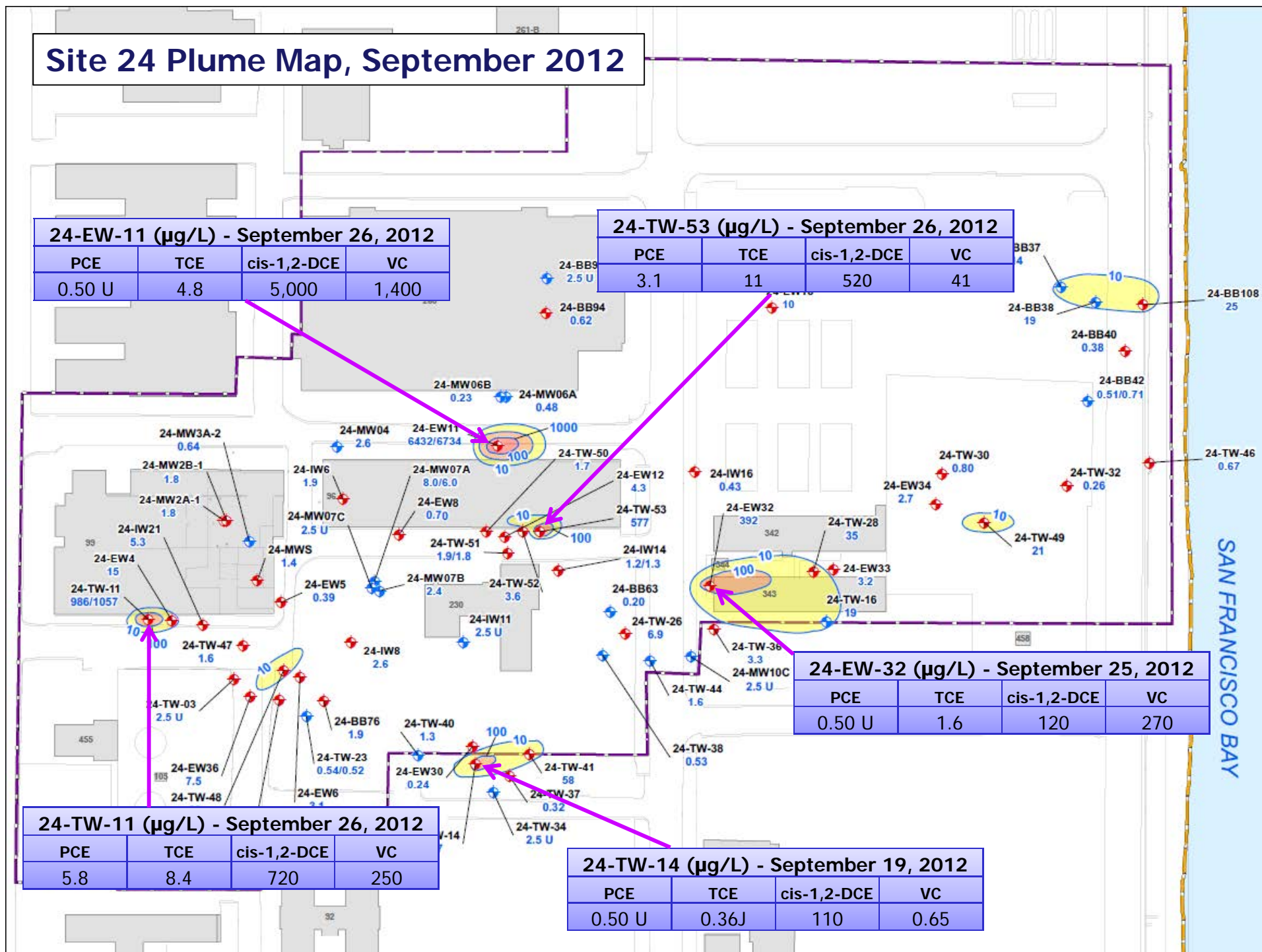
PCE	TCE	cis-1,2-DCE	VC
0.50 U	1.6	120	270

24-TW-11 (µg/L) - September 26, 2012

PCE	TCE	cis-1,2-DCE	VC
5.8	8.4	720	250

24-TW-14 (µg/L) - September 19, 2012

PCE	TCE	cis-1,2-DCE	VC
0.50 U	0.36J	110	0.65

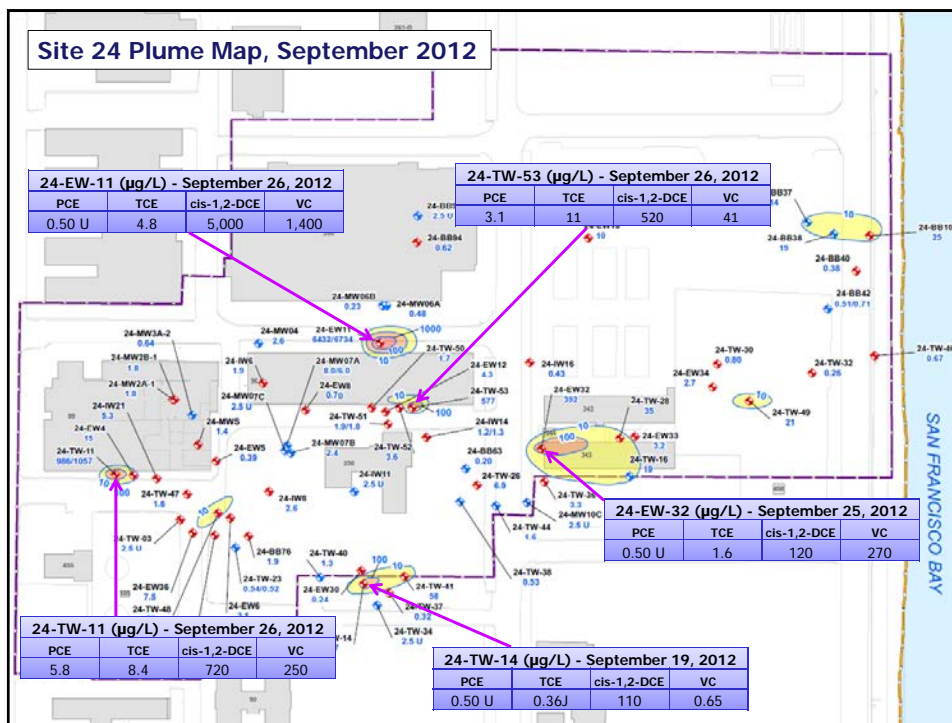
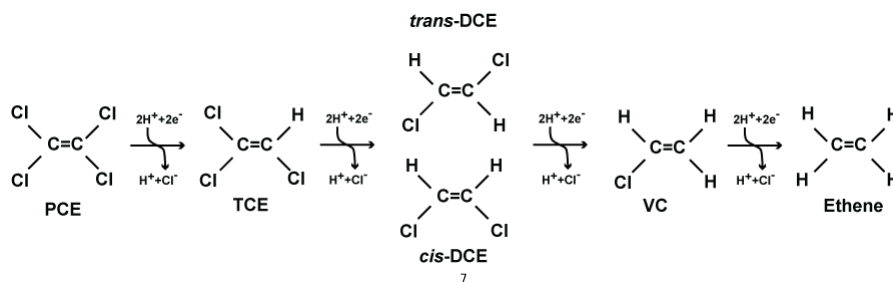




2012 Site 21 and 24 Sampling Design



- Quarterly Monitoring of
 - 35 Monitoring Wells at Site 21
 - 52 Monitoring Wells at Site 24
- Elevation data collected for all wells in the sampling plan
- All samples are analyzed for VOCs
 - COCs at both sites are chlorinated ethenes



Site 21 Plume Map, September 2012

21-IP07 (µg/L) - September 19, 2012

PCE	TCE	cis-1,2-DCE	VC
0.50 U	0.50 U	830	1,300

21-MW02A (µg/L) - September 19, 2012

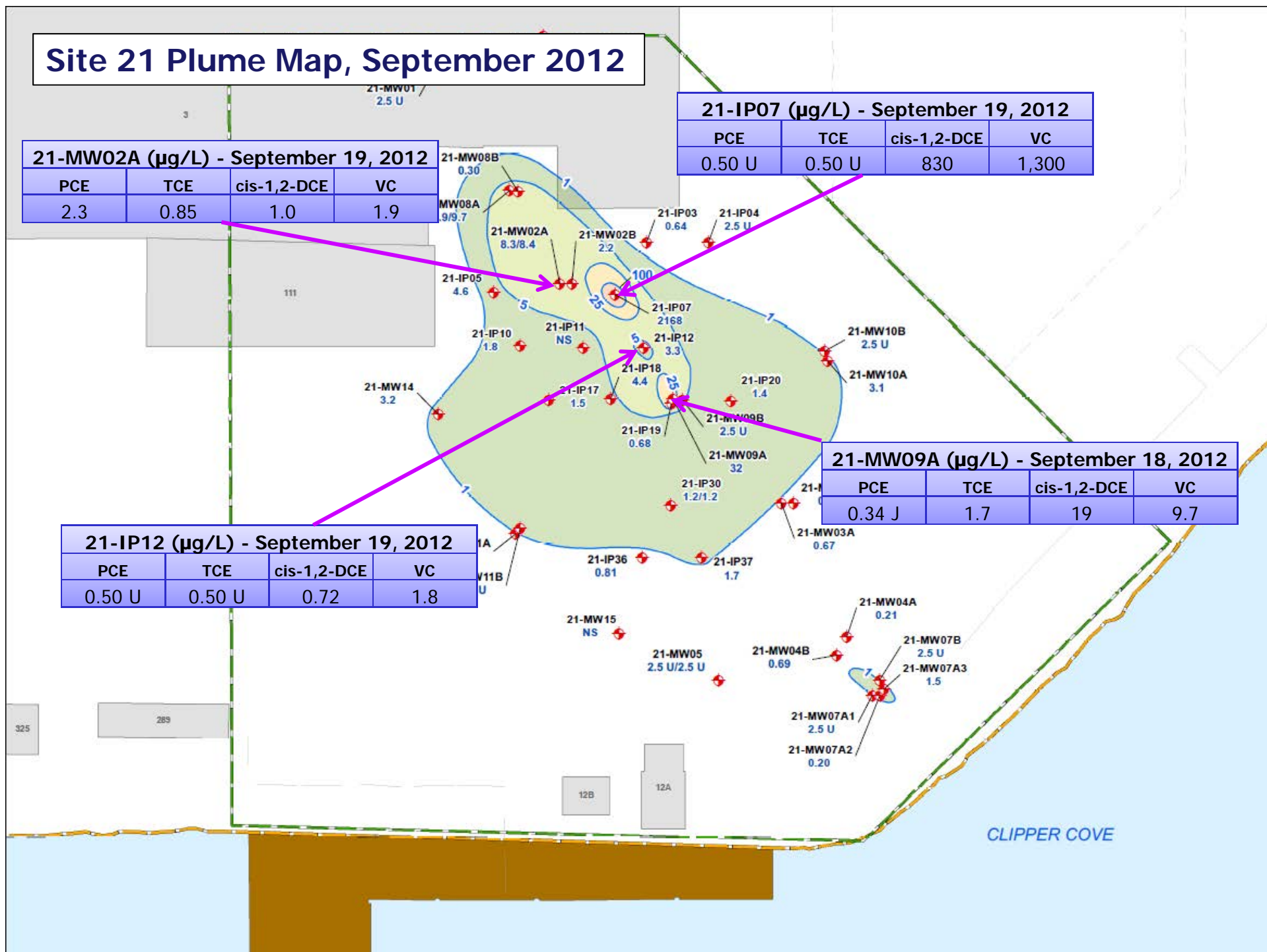
PCE	TCE	cis-1,2-DCE	VC
2.3	0.85	1.0	1.9

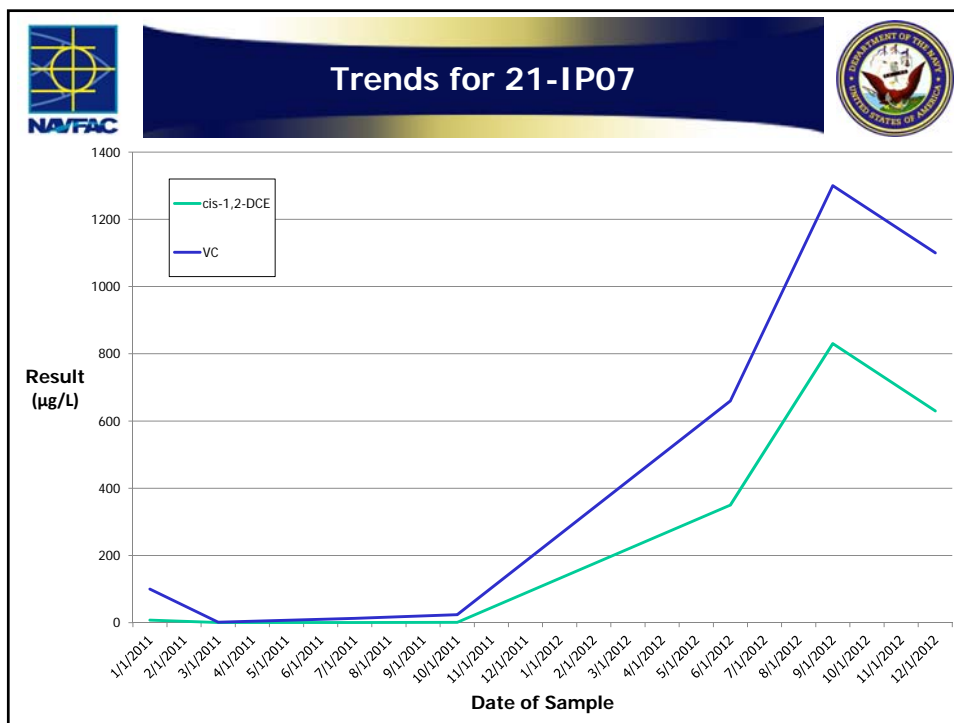
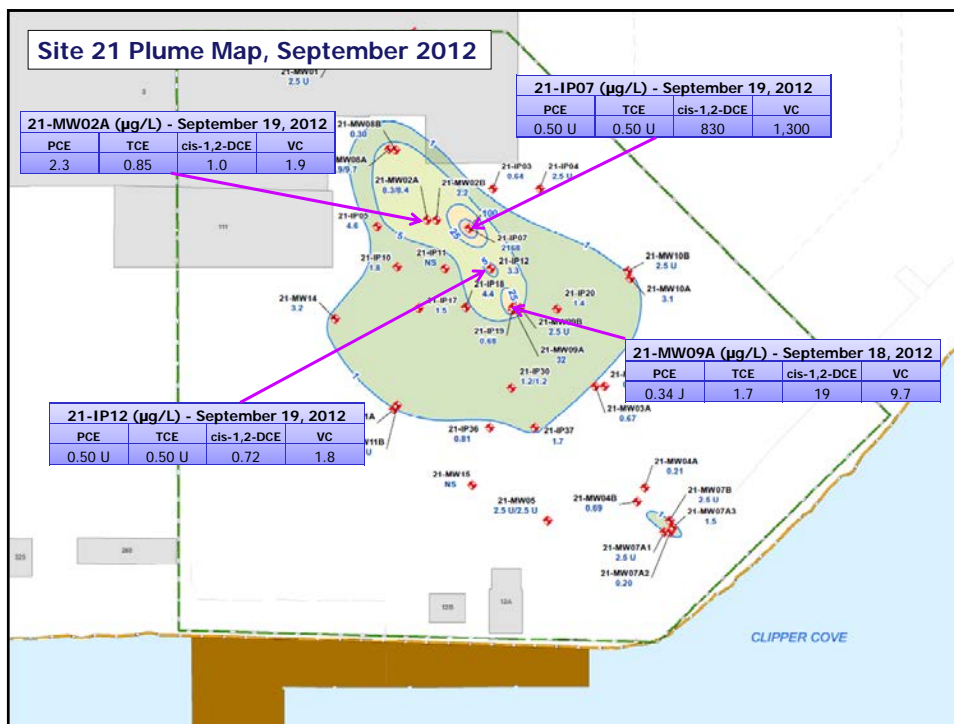
21-MW09A (µg/L) - September 18, 2012

PCE	TCE	cis-1,2-DCE	VC
0.34 J	1.7	19	9.7

21-IP12 (µg/L) - September 19, 2012

PCE	TCE	cis-1,2-DCE	VC
0.50 U	0.50 U	0.72	1.8







Upcoming Activities



- March 2013: Fourth quarterly sampling event for Sites 21 and 24
- April 2013: Draft Site 6 and 12 Groundwater Monitoring Report to be submitted to the agencies
- July 2013: Draft Site 21 and 24 Groundwater Monitoring Report to be submitted to the agencies
- March 2013: Begin development of the Basewide Groundwater Monitoring Sampling and Analysis Plan

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Basewide Groundwater Monitoring Plan



Changes in the current monitoring plans:

- Reduction of Site 24 monitoring activities to semi-annual sampling events
- Reduction of the Site 24 monitoring network to 43 wells
- Sampling design for Site 21 monitoring of groundwater and soil gas
- Sites 21 and 24 to include analysis for bio-activity indicators
- Update to the Site 12 and Site 6 sampling design according to recommendations in the Annual Reports

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Naval Station Treasure Island



Radiological Scoping Surveys

BRAC Cleanup Team (BCT) Meeting
February 6, 2013



Current Scoped Project Areas



Scoping Surveys

- Building 3
- Wastewater Utility Lines – Wastewater lines leaving Building 3 and Former Buildings 7 and 233
- Site 32
- Site 12
- Roadways – Transportation Routes between Site 12 Remedial Actions and Site 6



Building 3-HRA Tech Memo Revisited



- Former Uses: Ship Repair Activities and Optical Repair Shop
- Potential Radionuclides of Concern:
 - Ra-226
 - Th-232
- Contamination Potential:
 - Drains Leading from the Optical Repair Shop – High
 - Remainder of the Building - Low



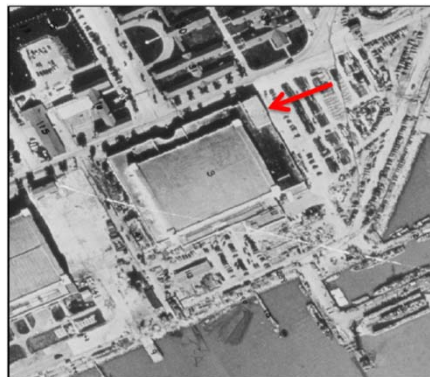
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Building 3-HRA Tech Memo Revisited

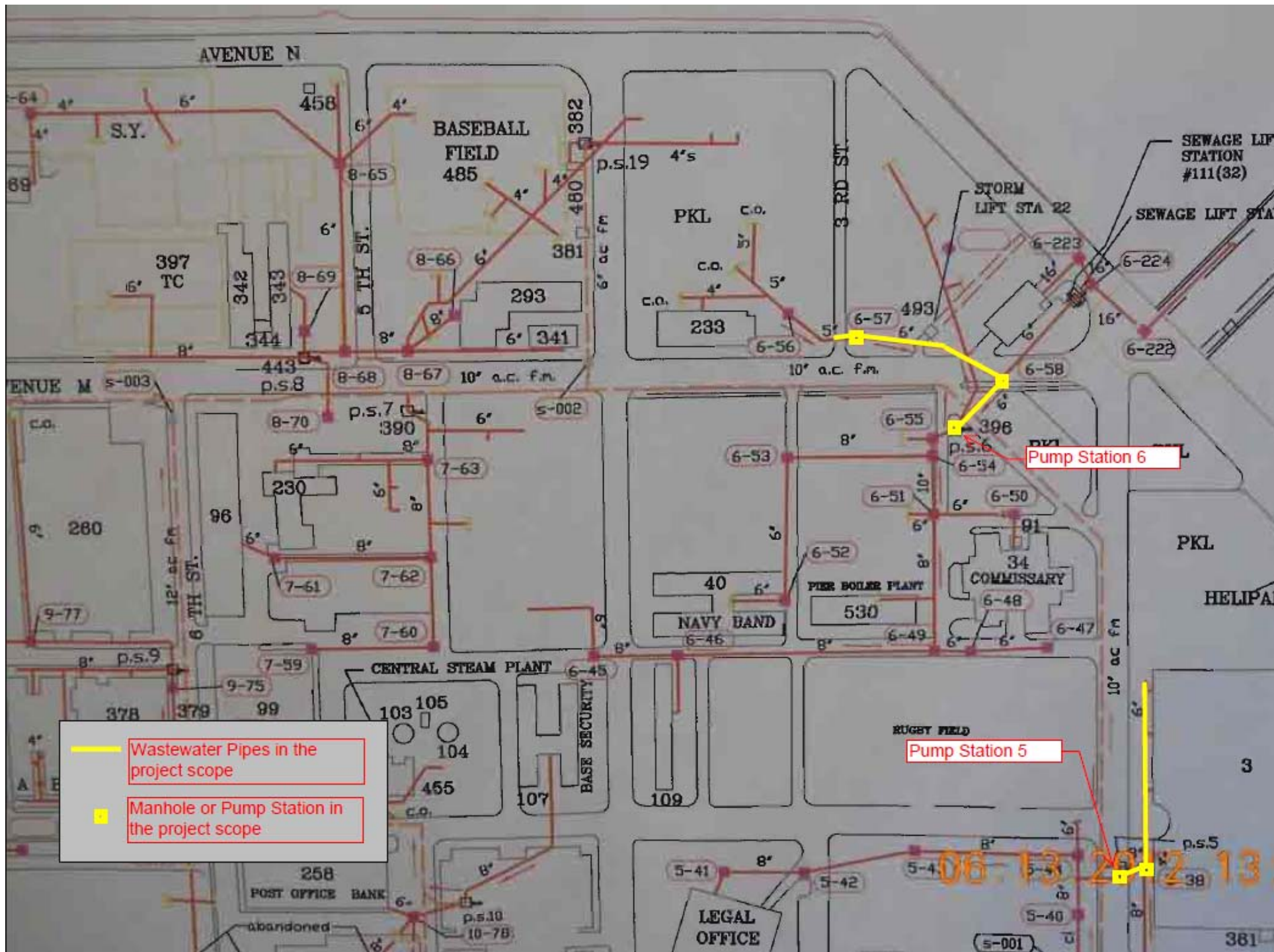


Interior of Hanger 3 during WWII Repair shop



1945 photo showing the presence of the optical shop on the north corner of the Building 3 Roof

4





Site 32 - Background



- Former Training and Storage Area
- PCB Removal Action Completed in 2010
- Proposed Plan/Public Meeting Completed in 2011
 - Concerns over potential contamination from activities at the USS Pandemonium put the Record of Decision on hold until further radiological evaluation is completed



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Site 32-HRA Tech Memo Revisited



- Also Known As: USS Pandemonium Site II (NE)
- Former Uses: Damage Control School Decontamination Training
 - Used CS-137 as sealed sources and short live isotopes
 - During short-live isotope use, decontamination water was collected in holding tanks and then released into the Bay
- Potential Radionuclides of Concern:
 - Ra-226
 - Cs-137
- Contamination Potential:
 - Surface Soil – Low
 - Structures – Low
 - Drainage Systems – Low



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Site 12-HRA Tech Memo Revisited



- Former Uses: Damage Control School Decontamination Training
 - Former Salvage Yard
 - USS Pandemonium Site I (NW)
- Potential Radionuclides of Concern:
 - Ra-226
 - Cs-137 (Pandemonium Site Only)
- Contamination Potential:
 - Surface Soil – Low
 - Subsurface Soil – Low
 - Drainage Systems – Low



Location of the former USS Pandemonium Site I (NW)

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Scope: Site 12 and Other Roadways



- Surface Scan of entire Site 12
 - Includes common areas and roads
 - Does not include SWDAs
 - Does not include occupied property (at this time)
- Surface Scan of roadways that served as a transportation route for removal actions at Site 12
 - Between Site 12 and the Site 6, where removed soil was stored



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Radiological Scoping Survey Status



PLANNING DOCUMENTS

- Basewide Radiological Management Work Plan: Currently under Navy Review
 - Draft document expected February 27
- Task-Specific Plan, Building 3 and Wastewater Drains: Currently under Navy Review
- Task-Specific Plan, Site 12 and Selected Roadways: Currently under development
- Task-Specific Plan, Site 32: Currently under development

FIELD WORK

- Field Mobilization Expected May 2012

NAVSTA TI Community Relations Activities/Items

Activity/Item		Schedule	Status
1	General Environmental Fact Sheet Update Vol. 7	March 30, 2013	In progress
	Standard fact sheet, updated with site status, contact information, basewide map, and other relevant updates. Inputting minor updates to site status, reflecting updates from the most recent SMP.		
2	Island Times Newsletter No. 19	March 30, 2013	In progress
	8-10 page newsletter covering various current events and general topics related to environmental cleanup.		
3	Radiological Update Fact Sheet		In progress
	Fact sheet to include update on screening and investigations, current and planned remedial activities, and preparation of the radiological technical memorandum.		In progress
4	Work Notice - Buildings 1123 and 1321 Demolition	April 2013	
5	Work Notice - Site 12 Soil Sampling		Complete
	Next RAB Meeting:		
164	Tuesday, February 19, 2013		

TREASURE ISLAND BCT ACTION ITEMS
February 6, 2013

Item	Action Item	Lead	Due Date	Revised Due Date	Completed	Comments
RADIOLOGICAL						
	DTSC to confirm with CDPH whether CDPH has received all of the split samples requested. Including samples from Building 233.	DTSC <i>Medi Sunga</i>	11/07/12	01/09/13	01/09/13	As requested at the October 2012 BCT meeting. Matt Wright confirmed the action item was complete during the January 2013 BCT meeting.
	Navy will send the list of commodities removed from the three SWDAs to the BCT.	Navy <i>Dave Clark</i>	12/14/12		02/01/13	As requested at the November 2012 BCT meeting. Navy presented commodity list at December 2012 RAB meeting.
1	Navy will send the scope and schedule of the radiological fact sheet to the BCT for review.	Navy <i>Keith Forman</i>	05/18/12	Discuss		As requested by TIDA at the April 2012 BCT meeting. Keith will lead discussion at BCT meeting.
2	Navy to provide TIDA with radiological survey information related to Site 12.	Navy <i>Danielle Janda</i>	01/11/13			As requested at the January 2013 BCT meeting.
3	Navy and CDPH EMB will discuss field work variance and work plan revision processes and path forward for notification process.	Navy <i>Tony Konzen</i>	02/12/13			As requested at the January 2013 BCT meeting.
MISCELLANEOUS						
	AMEC will confirm whether soil gas samples were recommended for and collected from the waste water treatment plant.	AMEC <i>Scott Warner</i>	01/09/13		✓	As requested by SF PUC at the December 2012 BCT meeting. AMEC confirmed the action item was complete during the January 2013 BCT meeting.
4	Tetra Tech will provide a status update to the BCT regarding the outstanding meeting minutes.	Tetra Tech <i>Jessica O'Sullivan</i>	02/06/13			As requested by DTSC at the January 2013 BCT meeting.
5	CDPH EMB to confirm with DTSC regarding review schedules for Site 12 documents that are under BCT review.	CDPH EMB <i>Matt Wright</i>	01/18/13			As requested by DTSC at the January 2013 BCT meeting.

Notes:

✓ Gray shading and/or check mark indicates action item is complete.
 BCT Base Realignment and Closure Cleanup Team
 CDPH California Department of Public Health
 DTSC Department of Toxic Substances Control
 RAB Restoration Advisory Board
 RASO Radiological Affairs Support Office

RI Remedial Investigation
 RTC Response to comments
 SF PUC San Francisco Public Utilities Commission
 TBD To be determined
 TIDA Treasure Island Development Authority
 YBI Yerba Buena Island